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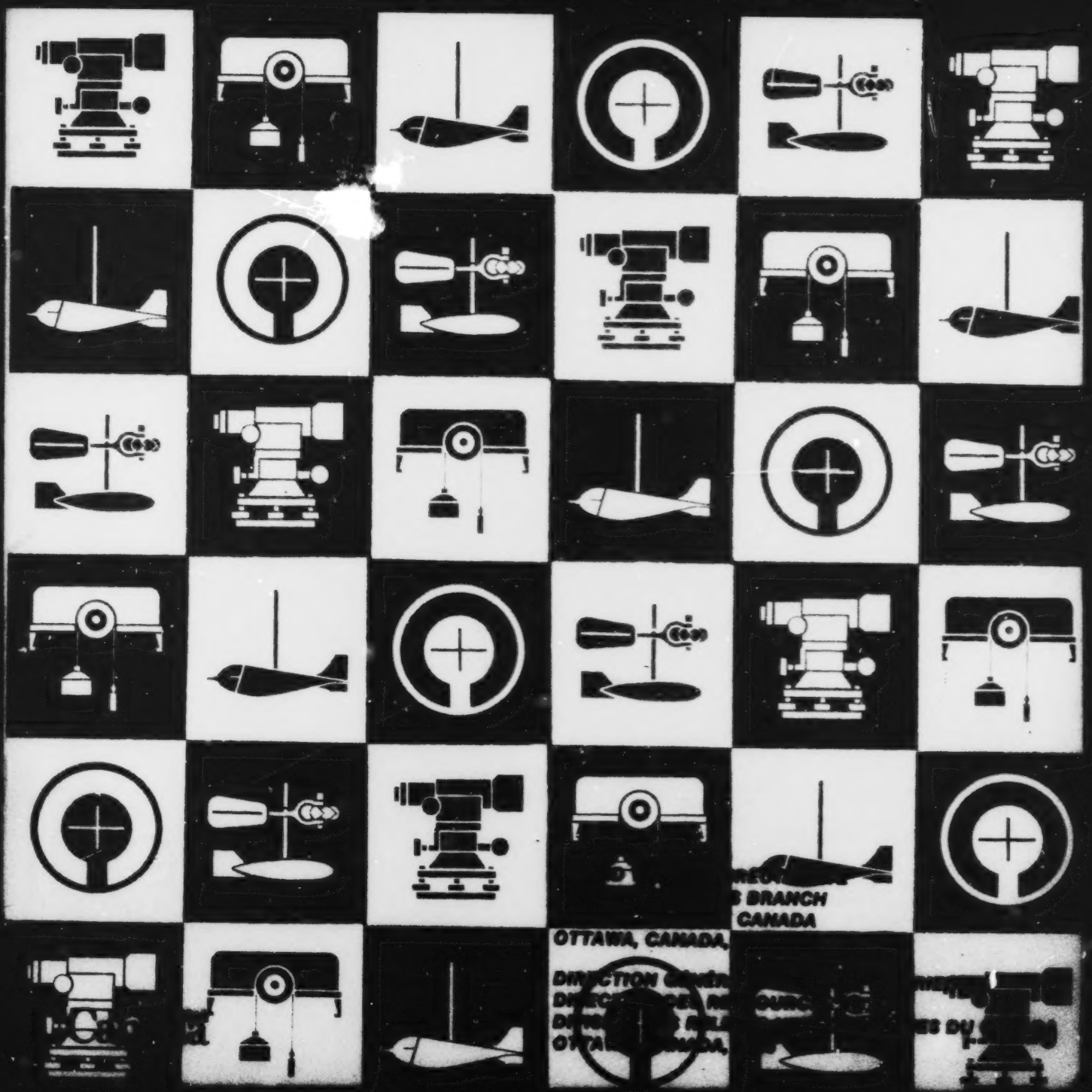
WATER SURVEY OF CANADA. HISTORICAL SEDIMENT DATA. SUMMARY: CANADIAN RI OOFF

# Sediment Data
## Canadian Rivers
## 1983

# Données sur les sédiments
## Rivières canadiennes



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Metric Commission Canada has granted use of the National Symbol for Metric Conversion. The metric usage in this text has been reviewed by the Metric Screening Office of the Canadian General Standards Board.

La Commission du système métrique Canada a autorisé l'utilisation du symbole national de conversion au système métrique. Le Service du contrôle métrique de l'Office des normes générales du Canada a revisé l'utilisation du système métrique dans cette publication.

Environment Canada

Environnement Canada

# Sediment Data
# **Canadian Rivers**

# **1983**

# Données sur les sédiments
# **Rivières canadiennes**

***INLAND WATERS DIRECTORATE***
***WATER RESOURCES BRANCH***
***WATER SURVEY OF CANADA***
***OTTAWA, CANADA, 1985***

***DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES***
***DIRECTION DES RESSOURCES EN EAU***
***DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA***
***OTTAWA, CANADA, 1985***

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## PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chiefs of the Water Resources Branch at Vancouver, British Columbia; Calgary, Alberta; Regina, Saskatchewan; Winnipeg, Manitoba; Guelph, Ontario and Dartmouth, Nova Scotia, and the Chief, N.W.T. Program, Yellowknife, Northwest Territories.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

## PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la compétence des chefs régionaux de la Direction des ressources en eau, à Vancouver (Colombie-Britannique), Calgary (Alberta), Regina (Saskatchewan), Winnipeg (Manitoba), Guelph (Ontario) et Dartmouth (Nouvelle-Écosse), et du Chef des programmes des T.N.-O., Yellowknife (T.N.-O.).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

## TABLE OF CONTENTS


| | PAGE |
|---|---|
| Preface | iii |
| Introduction | iv |
| Scope of this Publication | v |
| Organization and History of Sediment Surveys in Canada | vi |
| Co-operation and Acknowledgments | vi |
| Publication of Surface Water and Sediment Data | vii |
| Definition of Terms | viii |
| Definition of Symbols | ix |
| Collection and Processing of Basic Data | x |
| Equipment and Instrumentation | x |
| Hydrometric Surveys | x |
| Sediment Sampling Program | x |
| Total Sediment Discharge | xii |
| Sediment Survey Laboratories | xii |
| Accuracy of Field Data and Computed Results | xiii |
| Method of Tabulation of Runoff and Sediment Data | xiv |
| Revisions | xvi |
| Microfiche | xvi |
| Conversion Factors | xvii |
| Tabulation of Data | |
| Alberta | 1 |
| British Columbia | 50 |
| Manitoba | 103 |
| New Brunswick | 146 |
| Newfoundland | 152 |
| Northwest Territories | 160 |
| Nova Scotia | 166 |
| Ontario | 174 |
| Prince Edward Island | 214 |
| Saskatchewan | 220 |
| Station Number Index | 231 |
| Alphabetical Index | 233 |


## TABLE DES MATIÈRES


| | PAGE |
|---|---|
| Préface | iii |
| Introduction | iv |
| Portée de la présente publication | v |
| Organisation et historique des études des sédiments au Canada | vi |
| Coopération et remerciements | vi |
| Publication des données sur les eaux de surface et les sédiments | vii |
| Définitions des termes | viii |
| Définitions des symboles | ix |
| Cueillette et traitement des données de base | x |
| Matériel | x |
| Relevés hydrométriques | x |
| Échantillonnage des sédiments des cours d'eau | x |
| Débit total des sédiments | xii |
| Laboratoires d'analyse | xii |
| Exactitude des données et des résultats | xiii |
| Présentation sous forme de tableaux des données sur le ruissellement et les sédiments | xiv |
| Révisions | xvi |
| Microfiche | xvi |
| Facteurs de conversion | xvii |
| Mise en tableaux des données | |
| Alberta | 1 |
| Colombie-Britannique | 50 |
| Manitoba | 103 |
| Nouveau-Brunswick | 146 |
| Terre-Neuve | 152 |
| Territoires du Nord-Ouest | 160 |
| Nouvelle-Écosse | 166 |
| Ontario | 174 |
| Île du Prince-Édouard | 214 |
| Saskatchewan | 220 |
| Index numérique des stations | 231 |
| Index alphabétique | 233 |


## INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1983 calendar year, the results of the sediment survey investigations in Canada.

Information on the quantity and character of stream-transported sediment provided by the sediment survey investigations is intended for use as a basis for studies of deformation of river channels, erosion and deposition, and in the planning and design of water resource projects.

General introductory information on the sediment survey is included in this Publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

## INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les résultats des études des sédiments dans les cours d'eau du Canada pour l'année civile 1983.

Les données d'ordre quantitatif et qualitatif devraient servir de fondement aux études de la déformation des lits des cours d'eau, de l'érosion et de la sédimentation ainsi qu'à la planification et à la conception de projets qui touchent aux ressources en eau.

La présente publication contient également des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications courantes qui ont trait aux eaux de surface.

Details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to one of the following:

Regional Chief,
Water Resources Branch,
Department of the Environment,
502-1001 West Pender Street,
Vancouver, British Columbia.
V6E 2M9
(604 666-3606)

Regional Chief,
Water Resources Branch,
Department of the Environment,
Bag 2909,
Postal Station 'M',
(Room 854,
220-4th Avenue S.E.),
Calgary, Alberta.
T2P 2M7
(403 231-5311)

Regional Chief,
Water Resources Branch,
Department of the Environment,
G.M.C. Building,
1102-8th Avenue,
Regina, Saskatchewan.
S4R 1C9
(306 569-5338)

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2
(204 949-2434)

Regional Chief,
Water Resources Branch,
Department of the Environment,
Federal Building,
75 Farquhar Street,
Guelph, Ontario.
N1H 3N4
(519 821-0110)

Regional Chief,
Water Resources Branch,
Department of the Environment,
4th Floor, Queen Square,
45 Alderney Drive,
Dartmouth, Nova Scotia.
B2Y 2N6
(902 426-5776)

Chief, N.W.T. Programs,
Inland Waters Directorate,
Department of the Environment,
P.O. Box 2970,
Yellowknife, N.W.T.
X1A 2R2
(403 920-8500)

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7 (819 997-1508).

En s'adressant aux endroits ci-après, on peut obtenir des renseignements supplémentaires sur certaines stations particulières et divers relevés, ainsi que des données récentes non encore publiées.

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
502-1001, rue Pender ouest
Vancouver (C.-B.)
V6E 2M9
(604 666-3606)

Chef régional
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Calgary (Alberta)
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Chef régional
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Ministère de l'Environnement
Édifice fédéral
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Guelph (Ontario)
N1H 3N4
(519 821-0110)

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice Queen Square,
4e étage
45, prom. Alderney
Dartmouth, (Nouvelle-Écosse)
B2Y 2N6
(902 426-5776)

Chef des programmes des
T.N.-O.
Direction générale des eaux
intérieures
Ministère de l'Environnement
C.P. 2970
Yellowknife (T.N.-O.)
X1A 2R2
(403 920-8500)

ou Directeur, Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7 (819 997-1508).

## SCOPE OF THIS PUBLICATION

This paper contains data on streamflow, daily suspended sediment discharges, daily mean suspended sediment concentration, particle-size distribution of suspended sediment, particle-size distribution of bed load, and water temperature for days sediment samples were collected for the Calendar year 1983.

## PORTÉE DE LA PRÉSENTE PUBLICATION

La présente publication contient des données sur les débits des cours d'eau, sur les débits quotidiens des sédiments en suspension, sur la concentration moyenne quotidienne des sédiments en suspension, sur la granulométrie des sédiments en suspension, du charriage de fond et des matériaux de fond et sur la température de l'eau pendant les jours où les échantillons de sédiments sont recueillis pour l'année civile 1983.

## ORGANIZATION AND HISTORY OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of Federal and Provincial agencies for assessment of particular projects. While the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

1. Collection and publication of basic suspended sediment records on streams throughout Canada to provide data for:
   (a) Design and operation of reservoirs.
   (b) Design of canals, diversion works and drainage ditches.
   (c) Prediction, evaluation and control of deposition of natural channels.
   (d) Evaluation of erosion control measures.
   (e) Design of treatment facilities for water supply.
   (f) Improvement of fish habitat.

2. Determination of the relationship between sediment transport and various aspects of hydrology and geomorphology, particularly the relationship between sediment and erosion.

3. To increase the availability of sediment survey data to complement the hydrometric survey program in all parts of Canada and the standardization and improvement of equipment and techniques.

## ORGANISATION ET HISTORIQUE DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts des études sont de:

1. réunir et publier des données de base sur les sédiments en suspension dans les cours d'eau canadiens permettant:
   (a) la conception et la mise en oeuvre de réservoirs;
   (b) la conception de canaux, d'ouvrages de dérivation et de fossés de drainage;
   (c) la prédiction, l'évaluation et la réduction de la sédimentation dans les cours d'eau naturels;
   (d) l'évaluation des mesures de lutte contre l'érosion;
   (e) la conception d'installations de traitement pour l'approvisionnement en eau;
   (f) l'amélioration de l'habitat des poissons.

2. établir un rapport entre le transport des sédiments et divers facteurs hydrologiques et géomorphologiques, plus particulièrement avec l'érosion.

3. accroître la disponibilité de données sur les sédiments, à l'appui des relevés hydrométriques exécutés dans tous les coins du pays, et normaliser et améliorer le matériel et les techniques.

## CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other Federal and Provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the Sediment Data Reference Index.

## COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées lors de la prise des relevés sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

## PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

A program for the collection and publication of surface water and sediment data has been carried on for a number of years. Data for the 1964 water year and earlier years were published in the Water Resources Paper series. Subsequent data are being published in a new format adopted for published data of the Water Resources Branch.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961 at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI).

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

## PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

La cueillette et la publication des données sur les eaux de surface et les sédiments sont en oeuvre depuis un certain nombre d'années. On a publié, dans la série intitulée *Water Resources Papers*, les données pour l'année hydrologique 1964 et des années précédentes. Par la suite, on les a publiées selon une nouvelle présentation adoptée pour les données de la Division des ressources en eau.

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement. À partir de 1978, les données sont fournies dans le Système international d'unités (SI).

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

## DEFINITIONS OF TERMS

The following definitions are given to clarify the terms used in this publication:

*Automatic pump sample* is an individual water-sediment mixture pumped from a fixed point in a stream.

*Bed load* is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

*Bed material* is the sediment mixture of which the streambed is composed.

*Depth-integrated sediment sample* is a suspended sediment sample collected at a single vertical in a cross-section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

*Individual sampling vertical* is a selected permanent vertical in a cross-section in which individual suspended sediment samples are collected. Individual samples usually consist of a single sample taken on any one day. Two bottles of water-sediment mixture make up each sample.

*Instantaneous suspended sediment sample* is a sample taken instantaneously at a fixed point in a river cross-section.

*Measured suspended sediment discharge* is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

*Particle-size analysis* is the process of determining the size distribution of sediment particles in a sediment sample.

*Point-integrated sediment sample* is a sample of the water sediment mixture taken over a specified period of time at a fixed point in a river cross-section.

*Sediment* is fragmental material transported by, suspended in or deposited by a flowing stream.

*Sediment hydrograph* is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

## DÉFINITIONS DES TERMES

Les définitions suivantes sont fournies afin d'éclaircir les termes utilisés dans la présente publication:

*Échantillonnage automatique à l'aide d'une pompe* (Automatic pump sample): un mélange isolé de sédiments et d'eau prélevé au moyen d'une pompe en un point précis d'un cours d'eau.

*Charriage de fond* (Bed load): matières déplacées, roulées ou poussées sur le fond sous l'action de l'eau, mais qui restent en contact presque permanent avec le fond.

*Matériaux de fond* (Bed material): mélange de sédiments composant le lit d'un cours d'eau.

*Échantillon intégré en fonction de la profondeur des sédiments en suspension* (Depth-integrated sediment sample): échantillon prélevé à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante en un point précis d'une section transversale d'un cours d'eau; il représente un échantillon moyen des sédiments répartis de la surface de l'eau à environ neuf centimètres au-dessus du fond.

*Verticale d'échantillonnage isolé* (Individual sampling vertical): ligne verticale permanente, en un point précis d'une section transversale, où généralement un échantillon est prélevé chaque jour à l'aide de deux bouteilles.

*Échantillon instantané de sédiments en suspension* (Instantaneous suspended sediment sample): échantillon prélevé à un moment donné en un point précis d'une section transversale d'un cours d'eau.

*Débit mesuré des sédiments en suspension* (Measured suspended sediment discharge): débit des sédiments en suspension calculé d'après le débit d'un cours d'eau et la concentration des sédiments déterminée par un échantillonnage intégré en fonction de la profondeur.

*Analyse granulométrique* (Particle-size analysis): procédé consistant à déterminer la répartition de la dimension des particules dans un échantillon de sédiments.

*Échantillon ponctuel et intégré des sédiments en suspension* (Point-integrated sediment sample): échantillon d'un mélange d'eau et de sédiments prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau.

*Sédiments* (Sediment): matières fragmentaires transportées, déposées ou en suspension dans un cours d'eau.

*Carte hydrographique des sédiments* (Sediment hydrograph): graphique représentant la variation de la concentration ou du débit des sédiments en suspension en fonction du temps.

*Suspended sediment* is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

*Suspended sediment concentration* is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. This ratio is expressed herein as "milligrams per litre" (mg/L).

*Suspended sediment discharge* is the quantity of suspended sediment transported through a cross-section per unit of time.

*Suspended sediment sample* is a quantity of water-sediment mixture representing the average concentration or the average particle-size distribution of suspended sediment.

*Total sediment discharge* or *total sediment load* is the sum of the suspended sediment discharge and the bed load discharge.

*Unmeasured sediment discharge* or *unmeasured sediment load* is the difference between total sediment discharge and measured suspended sediment discharge.

*Sédiments en suspension* (Suspended sediment): matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

*Concentration des sédiments en suspension* (Suspended sediment concentration): rapport entre le poids de matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Le rapport s'exprime dans la présente publication en «milligrammes par litre» (mg/L).

*Débit des sédiments en suspension* (Suspended sediment discharge): quantité de sédiments en suspension traversant une section transversale d'un cours d'eau par unité de temps.

*Échantillon de sédiments en suspension* (Suspended sediment sample): mélange de sédiments et d'eau représentatif de la granulométrie ou de la concentration moyennes de sédiments en suspension.

*Débit total des sédiments* ou *charge totale des sédiments* (Total sediment discharge or total sediment load): somme du débit des sédiments en suspension et du débit charrié.

*Débit non mesuré des sédiments* ou *charge totale non mesurée des sédiments* (Unmeasured sediment discharge or unmeasured sediment load): différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

## DEFINITION OF SYMBOLS

*A – Manual Gauge* – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

*B – Ice Conditions* – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

*E – Estimated* – indicates estimated data. It indicates that the values between collected sediment samples of a peak period, are estimated by some indirect method such as interpolation, extrapolation, from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

*S – Sample(s) collected this day* – indicates that a depth-integrated or point-integrated measurement, automatic or individual sample(s) was collected this day.

## DÉFINITIONS DES SYMBOLES

*A – Turbidisonde simple* – indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

*B – Glaces* – indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

*E – Estimative* – indique des données estimatives, c'est-à-dire que les valeurs fournies entre les prélèvements d'échantillons d'une période de débit de pointe, sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

*S – Échantillon(s) prélevé(s) en ce jour* – indique qu'on a prélevé un échantillon, intégré selon la profondeur ou ponctuel, automatiquement ou de façon isolée pour la journée en question.

## COLLECTION AND PROCESSING OF BASIC DATA

### 1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross-sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain of these cross-sections are located at traffic bridges while others are equipped with cableways or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.

(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.

(c) Depth-integrating suspended sediment sampler, USD-49, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Depth-integrating suspended sediment sampler, USD-74, used on a reel suspension for medium and large streams whose depths are greater than five metres.

(e) Point-integrating suspended sediment samplers, USP-61 and USP-63, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross-section with a very high velocity.

(f) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(g) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(h) Bed material sampler USBMH-53 used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

### 2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for daily observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment discharge measurements and conform to the accepted standards of the regular hydrometric survey.

### 3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment discharge by the depth-integrating method (EDI) for determining the average suspended sediment concentration in the cross-section.

(b) Individual suspended sediment samples at a selected vertical for determining the sediment concentration for

## CUEILLETTE ET TRAITEMENT DES DONNÉES DE BASE

### 1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines des sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) l'échantillonneur intégré vertical simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;

(b) l'échantillonneur intégré vertical, USDH-59, utilisé comme câble porteur dans les cours d'eau petits et moyens;

(c) l'échantillonneur intégré vertical, USD-49, fixé au bout d'une corde s'enroulant autour d'un moulinet et employé dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;

(d) l'échantillonneur intégré vertical, USD-74, fixé au bout d'une corde s'enroulant autour d'un moulinet et employé dans les cours d'eau gros ou moyens dont la profondeur est supérieure à cinq mètres;

(e) les échantillonneurs intégrés, ponctuels ou verticaux, USP-61 et USP-63, utilisés dans les cours d'eau d'une profondeur supérieure à cinq mètres, ou dans les sections transversales qui connaissent un débit très élevé;

(f) l'échantillonneur automatique sous pression employé dans un réseau de pompage automatique et permettant le prélèvement et la mise en bouteille, sans surveillance, d'échantillons isolés d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(g) l'échantillonneur de sédiments USBM-54 utilisé dans les cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est dur;

(h) l'échantillonneur de sédiments USBMH-53 employé dans les cours d'eau petits ou peu profonds; et

(i) la drague employée dans les petits cours d'eau ou dans ceux dont le fond est meuble.

### 2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation quotidienne de la hauteur des eaux, la mesure du débit, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. La mesure du débit d'un cours d'eau et du débit des sédiments se font conjointement selon les normes acceptées.

### 3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) la mesure périodique du débit des sédiments en suspension avec intégration selon la profondeur (méthode IDE), afin de déterminer leur concentration moyenne dans une section transversale d'un cours d'eau;

(b) le prélèvement d'échantillons isolés des sédiments en suspension selon une verticale choisie, afin de déterminer

the days when suspended sediment discharge measurements are not taken.

(c) Limited measurement of suspended sediment discharge by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross-section.

(d) Periodic sampling of bed material in the cross-section for determining the average particle-size distribution in the cross-section for the computation of sediment transport.

(e) Periodic measurement of bed load discharge.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Discharge by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the amount of suspended sediment load carried in the entire cross-section of a stream and to determine the average suspended sediment concentration in the cross-section, or to determine both the suspended sediment load and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the surface of the water in the stream to the streambed and to vary from side to side.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross-section is divided into at least five equal-flow portions and a representative suspended sediment sample is collected from each portion. For each part of the cross-section, the suspended sediment discharge (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\,c$$

The suspended sediment discharge (R) for the whole cross-section, may be computed by adding the sediment discharges for the five equal-flow portions:

$$R = r\,n = q_1c_1 + q_1c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment discharge. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Individual Suspended Sediment Samples at a Selected Vertical*: Individual suspended sediment samples are collected routinely with depth-integrating samplers at a permanently fixed vertical in the cross-section. During the periods of very heavy sediment concentration, two or three sediment samples may be taken per day, while in the periods with low concentration, one sediment sample may be taken every few days.

(c) *Suspended Sediment Discharge by Point-Integrating Method*: A limited number of sediment discharge measurements are made by the point-integrating method. These measurements are included in the program, (a) to check by comparison the "measured" sediment discharges obtained by the depth-integrating method with the full suspended sediment discharges by point-integrating method, and, (b) to obtain samples from which to determine particle-size distribution at different points in the cross-section. The point-integrating sediment discharges are computed by graphical methods.

la concentration des sédiments qui correspond aux journées où le débit des sédiments en suspension n'est pas mesuré;

(c) un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) l'échantillonnage périodique des sédiments dans une section transversale, afin de déterminer la granulométrie des particules dans une section transversale d'un cours d'eau en vue du calcul des sédiments;

(e) la mesure périodique du débit charrié.

Voici une brève explication des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer la quantité de sédiments en suspension traversant toute une section transversale d'un cours d'eau et d'y déterminer la concentration moyenne des sédiments en suspension, ou de déterminer tant la charge que la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente avec la profondeur et qu'elle varie d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches égales, où le débit est constant, et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\,c$$

Le débit des sédiments en suspension (R), pour toute une section transversale, est obtenu en faisant la somme des débits des sédiments des cinq tranches égales, où le débit est constant:

$$R = r\,n = q_1c_1 + q_1c_2 + \ldots + q_nc_n$$

La méthode par intégration selon la profondeur est employée pour mesurer le débit des sédiments en suspension. L'échantillonneur se remplit à un taux proportionnel au débit du milieu où il se trouve et, en étant déplacé selon toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de cette dernière.

(b) *Prélèvements d'échantillons isolés des sédiments en suspension selon une verticale choisie*: Les prélèvements se font régulièrement à l'aide d'appareils intégrateurs selon la profondeur, en un point permanent précis d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon tous les quelques jours peut avoir lieu lorsqu'elle est faible.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: La méthode se limite à un petit nombre de mesures; on y a recours, car elle permet (a) de vérifier les valeurs du débit des sédiments mesuré grâce à la méthode précédente et (b) d'obtenir des échantillons qui permettent l'analyse granulométrique des sédiments en divers points d'une section transversale. Dans cette méthode, les débits des sédiments sont calculés à l'aide de graphiques.

The relationship between the suspended sediment concentration of the individual samples and the average concentration in the cross-section determined from the suspended sediment discharge is established for some stations. Using this relationship, the sediment concentrations of the individual samples are adjusted to reflect the average suspended sediment concentration in the cross-section. These average sediment concentrations in the cross-sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration, in milligrams per litre (mg/L), by the daily mean discharge, in cubic metres per second ($m^3/s$), and the appropriate conversion factor, normally 0.0864.

(d) *Periodic Sampling of Bed Material*: In a cross-section, bed material samples and suspended sediment samples usually are taken in the same verticals. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross-section. The total number of bed material samples taken in a cross-section usually varies between five and nine.

(e) *Bed Load Discharge*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross-section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Discharge*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) evaporation method and (2) filtration method, and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

Le rapport entre la concentration des sédiments en suspension dans les échantillons isolés et la concentration moyenne des sédiments dans une section transversale, telle que déterminée à partir du débit des sédiments en suspension, est établi pour quelques stations. Il sert à amener les échantillons isolés des concentrations des sédiments à refléter la concentration moyenne des sédiments en suspension dans une section transversale. Le graphique de la concentration moyenne des sédiments en suspension dans une section transversale est obtenu en traçant une courbe qui passe à travers des points déterminés. Ce graphique représente la concentration moyenne des sédiments en suspension pour la période d'enregistrement. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs quotidiennes du débit des sédiments en suspension sont calculées à partir du débit d'un cours d'eau et des concentrations des sédiments en suspension recueillis. Exprimées en tonnes par jour, elles représentent le produit de la concentration moyenne quotidienne des sédiments, en milligrammes par litre (mg/L), par le débit moyen quotidien, en mètre cubes par seconde ($m^3/s$), et par un facteur de conversion approprié, ordinairement 0.0864.

(d) *Échantillonnage périodique des matériaux de fond*: Dans une section transversale, les échantillons des sédiments en suspension et des sédiments sont ordinairement prélevés à la même verticale. Souvent, des échantillons supplémentaires des sédiments sont pris près des rives, au niveau d'eau extrême ou à d'autres points d'une section transversale. Leur nombre total pour une section transversale donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du débit charrié*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.) dont le choix se fondera sur la nature du régime d'un cours d'eau.

4. *Débit total des sédiments*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) évaporation et (2) filtration, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à soustraire des résultats la concentration des matières dissoutes. La quantité est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

For purposes of this publication, particle-size analysis was carried out for most of the suspended sediment samples with concentrations greater than 300 mg/L. Determination of sand sizes and analysis of sediment coarser than 0.062 mm generally were made by sieve analysis. Depending upon the amount of sediment, the samples with particle sizes smaller than 0.062 mm were analysed by the bottom withdrawal tube method, or the hydrometer method. Distilled water or mixed native and distilled waters were used as the settling medium. In some instances, chemical dispersing agents were added to the settling medium.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

| Classification | Size (mm) |
|---|---|
| Clay | 0.00024 - 0.004 |
| Silt | 0.004 - 0.062 |
| Sand | 0.062 - 2.0 |
| Gravel | 2.0 - 64.0 |

The particle size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

### 6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data referred to herein, is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross-section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbols A, B, E and S.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Aux fins de la présente publication, on a effectué l'analyse granulométrique pour la plupart des échantillons de sédiments en suspension de concentration supérieure à 300 mg/L. On a généralement déterminé la taille des grains de sable et analysé les matériaux de taille supérieure à 0.062 mm à l'aide de tamis. D'après leur concentration, on a analysé les échantillons dont la taille des particules était inférieure à 0.062 mm, soit par extraction des sédiments déposés dans un tube ou à l'aide d'un hydromètre. On a employé de l'eau distillée ou un mélange d'eau naturelle et distillée comme milieu de décantation et, dans certains cas, on a ajouté des agents dispersants chimiques.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

| Classification | Taille (mm) |
|---|---|
| Argile | 0.00024 - 0.004 |
| Limon | 0.004 - 0.062 |
| Sable | 0.062 - 2.0 |
| Gravier | 2.0 - 64.0 |

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique et analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

### 6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments utilisées dans la présente étude dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sediments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée par l'examen de la fréquence d'utilisation des symboles A, B, E et S.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours à crues très rapides.

## METHOD OF TABULATION OF RUNOFF AND SEDIMENT DATA

For gauging stations where a systematic record of streamflow and suspended sediment discharge was obtained, the following data are given where available:

1. Table of daily suspended sediment yield.
2. Summary of monthly and annual data.
3. Descriptive information.
4. Table of particle-size analysis of suspended sediment.
5. Table of particle-size analysis of bed load.

1. *The Table of Daily Suspended Sediment Yield* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, the daily suspended sediment yield in tonnes per day, water temperatures in degrees Celsius observed in the cross-section during flow measurements or during the suspended sediment sampling.

2. *A Summary of Monthly and Annual Data* is given following the table of daily suspended sediment load.

For stations where only concentrations are obtained no monthly or annual data are given.

For stations where sediment yield in tonnes per day are produced for partial years only, no annual data are given.

For stations where sediment yield in tonnes per day are produced, for complete years or standard periods, both the monthly and annual summary are given.

The monthly summary gives:

(a) the total of the daily discharge in cube metres per second for complete months;
(b) the mean discharge in cubic metres per second;
(c) the total of the daily sediment load in tonnes per day for complete months;
(d) the mean sediment load in tonnes per day.

The summary for the year or period gives:

(a) the total suspended sediment load in tonnes;
(b) the mean suspended sediment concentration in milligrams per litre, and computed as total suspended sediment load ÷ total streamflow;
(c) the maximum and minimum daily suspended sediment concentration in milligrams per litre;
(d) the mean suspended sediment load in tonnes per day;
(e) the maximum and minimum daily load in tonnes per day.

3. The descriptive information about the gauging station is also given below the table of daily suspended sediment and will indicate the following where applicable:

## PRÉSENTATION SOUS FORME DE TABLEAUX DES DONNÉES SUR LE RUISSELLEMENT ET LES SÉDIMENTS

Pour les stations de jaugeage où on a effectué un relevé systématique du débit d'un cours d'eau et des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. le tableau du débit quotidien des sédiments en suspension;
2. un extrait des données mensuelles et annuelles;
3. des renseignements descriptifs;
4. le tableau de la granulométrie des sédiments en suspension;
5. le tableau de la granulométrie du charriage de fond.

1. *Le tableau du débit quotidien des sédiments en suspension* (The Table of Daily Suspended Sediment Yield) donne le débit moyen quotidien, en mètres cubes par seconde, la concentration quotidienne moyenne, en milligrammes par litre, le débit quotidien des sédiments en suspension, en tonnes par jour, la température de l'eau, en degrés Celsius, dans une section transversale au moment de la mesure du débit ou de l'échantillonnage des sédiments en suspension.

2. *Un extrait des données mensuelles et annuelles* (A Summary of Monthly and Annual Data) est donné au-dessous du tableau du débit quotidien des sédiments en suspension.

Aucune donnée mensuelle ou annuelle n'est fournie pour les stations où on ne mesure que la concentration.

Aucune donnée annuelle n'est fournie pour les stations où on ne mesure que le débit des sédiments en tonnes par jour pendant une partie de l'année.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on a mesuré le débit des sédiments en tonnes par jour pour l'année entière ou des périodes bien définies.

L'extrait mensuel donne:

(a) le total du débit quotidien en mètres cubes par seconde, pour le mois entier;
(b) le débit moyen en mètres cubes par seconde;
(c) le total du débit quotidien des sédiments, exprimé en tonnes par jour, pour le mois entier;
(d) le débit moyen des sédiments en tonnes par jour.

L'extrait annuel ou périodique donne:

(a) le débit total des sédiments en suspension, en tonnes;
(b) la concentration moyenne des sédiments en suspension, en mg/L, calculée en divisant le débit total des sédiments en suspension par le débit total du cours d'eau;
(c) les concentrations quotidiennes maximale et minimale des sédiments en suspension, en mg/L;
(d) le débit moyen des sédiments en suspension, en tonnes par jour;
(e) les débits quotidiens maximal et minimal, en tonnes par jour.

3. Des renseignements descriptifs sur les stations de jaugeage sont également présentés sous le tableau des sédiments en suspension quotidiens et apportent les précisions qui suivent.

*International Gauging Stations* – on waters adjacent to the international boundary, certain gauging stations have been designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

*Type of Gauge* – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

*Location* – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

*Drainage Area* – this is the latest available drainage area and refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

*Natural Flow* or *Regulated Flow* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

*Contributed Data* – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

*Remarks* – contains a statement pertaining to the sediment sample collection.

4. *The Table of Particle-size Analysis of Suspended Sediment* for Depth and Point Integrating samples gives the particle-size distribution, in per cent finer in millimetres, of the sampled suspended sediment in the cross-section.

5. *The Table of Particle-size Analysis of Bed Load* gives the average particle-size distribution, in per cent finer in millimetres, of the sampled bed load in the cross-section.

*Stations internationales de jaugeage* (International Gauging Stations) – Dans des eaux contiguës aux frontières, on a désigné certaines stations comme «internationales», et les données prélevées sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publication et les *United States Water Supply Papers* proviennent de variantes dans les techniques de traitement automatique des données.

*Type de jauge* (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau et le débit d'un cours d'eau.

(a) Manuelle (Manual) – indique qu'un appareil non enregistreur sert à obtenir une fois par jour les données sur le niveau et le débit d'un cours d'eau.

(b) Enregistreuse (Recording) – indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux tracé sur une carte analogique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

*Emplacement* (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à un endroit éloigné de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

*Superficie du bassin versant* (Drainage Area) – Il s'agit de la superficié du bassin versant déterminée d'après les cartes les plus récentes et désigne la zone délimitée par une ligne de partage des eaux de sorte que l'écoulement d'averse est entraîné par gravité vers le cours d'eau en amont de la station.

*Débit naturel* ou *régularisé* (Natural Flow or Regulated Flow) – Un débit reconnu comme naturel est indiqué comme tel. Le débit de plusieurs réseaux hydrographiques est modifié par une régularisation qui est effectuée en amont. Il arrive parfois que l'importance de cette régularisation ne soit pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique ainsi que l'année où elle a débuté (si elle est connue).

*Données fournies* (Contributed Data) – Nom de l'organisme extérieur qui a fourni toutes les données ou une partie des données.

*Remarques* (Remarks) – Renseignements sur le prélèvement des échantillons de sédiments.

4. *Le tableau de la granulométrie des sédiments en suspension* (The Table of Particle-Size Analysis of Suspended Sediment) pour les échantillons intégrés et ponctuels donne dans une section transversale le pourcentage des particules, dont la taille est inférieure à la taille indiquée en millimètres.

5. *Le tableau de la granulométrie du charriage de fond* (The Table of Particle-Size Analysis of Bed Load) donne le pourcentage moyen des particules de charriage de fond dans une section transversale, particules dont la taille est inférieure à la taille indiquée en millimètres.

## REVISIONS

A number of corrections or revisions have been made to previously published streamflow and suspended sediment discharge data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data.

Revisions to daily discharges are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

## MICROFICHE

All published daily sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by Region, therefore data for a particular province may include fiche from two or more Regions. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, Region, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

Daily sediment data for 1978 and subsequent years are available annually on microfiche. These data are also stored in station number order by Region.

## RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées sur le débit de cours d'eau et de sédiments en suspension. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit.

Les corrections apportées aux débits quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

## MICROFICHE

Toutes les données quotidiennes publiées sur les sédiments sont disponibles sur microfiche en unités métriques aux usagers qui en font la demande. Ces données sont emmagasinées par ordre de numéro de station et par région. Les données relatives à une province en particulier peuvent donc inclure des fiches en provenance de deux régions ou plus. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la région, le numéro de la première et de la dernière station, celui de la première et de la dernière année de cueillette ainsi que le mois et l'année de préparation de la fiche. La dernière image donne l'index du contenu de la fiche.

Les données quotidiennes sur les sédiments dès 1978 sont disponibles sur microfiche chaque année. Ces données sont également emmagasinées par ordre de numéro de station et par région.

## CONVERSION FACTORS

The following list of convenient equivalents of measure gives the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 $km^2$ (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 $m^2$ (square metres)
1 ha (hectare) equals 2.4710 acres
1 $km^2$ (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 $m^3$ (cubic metre)
1 $m^3$ (cubic metre) equals 35.315 cubic feet

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 $dam^3$ (cubic decametres)
1 $m^3/s$ (cubic metre per second) for one day equals 86.4 $dam^3$ (cubic decametre)
1 $m^3/s$ (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 $m^3/s$ (cubic metre per second)
1 $m^3/s$ (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

## FACTEURS DE CONVERSION

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 $km^2$ (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 $m^2$ (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 $km^2$ (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 $m^3$ (mètre cube)
1 $m^3$ (mètre cube) vaut 35.315 pieds cubes

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 $dam^3$ (décamètres cubes)
1 $m^3/s$ (mètre cube par seconde) pour un jour vaut 86.4 $dam^3$ (décamètre cube)
1 $m^3/s$ (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 $m^3/s$ (mètre cube par seconde)
1 $m^3/s$ (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

# ALBERTA

## ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07DD001

## SUSPENDED SEDIMENT FOR 1983

### APR

| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | | DAILY LOAD (t) |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
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| 5 | | | | | |
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| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| TOTAL | | | | | |
| MEAN | | | | | |

### MAY

| TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | | DAILY LOAD (t) |
|---|---|---|---|---|
| | 899 | 37 | E | 2 100 |
| 5.0 | 883 | 27 | S | 1 980 |
| | 815 | 35 | | 1 780 |
| 5.0 | 800 | 22 | S | 1 530 |
| | 787 | 19 | | 1 290 |
| 5.0 | 788 | 19 | S | 1 280 |
| | 782 | 21 | | 1 380 |
| 6.0 | 738 | 23 | S | 1 470 |
| | 724 | 28 | | 1 810 |
| 6.0 | 718 | 45 | S | 2 780 |
| | 707 | 78 | | 4 830 |
| 7.0 | 894 | 95 | S | 5 700 |
| | 888 | 88 | | 5 630 |
| 7.0 | 887 | 40 | S | 2 370 |
| | 894 | 38 | | 2 180 |
| 8.0 | 713 | 43 | S | 2 850 |
| | 721 | 46 | | 2 990 |
| 8.0 | 730 | 47 | S | 2 920 |
| | 708 | 42 | | 2 580 |
| 10.0 | 891 | 37 | S | 3 210 |
| | 878 | 37 | | 2 180 |
| 10.0 | 887 | 36 | S | 2 180 |
| | 866 | 39 | | 2 250 |
| 10.0 | 877 | 39 | S | 2 280 |
| | 887 | 40 | | 2 370 |
| 11.0 | 803 | 40 | S | 2 400 |
| | 883 | 40 | | 2 400 |
| 12.0 | 880 | 40 | S | 2 380 |
| | 878 | 34 | | 1 890 |
| 12.0 | 867 | 28 | S | 1 440 |
| | 888 | 23 | | 1 320 |
| | 22 337 | | | 72 840 |
| | 721 | | | 2 350 |

### JUN

| TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | | DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|
| 12.0 | 873 | 26 | S | 1 830 | 1 |
| | 868 | 31 | | 1 880 | 2 |
| 12.0 | 732 | 32 | S | 2 020 | 3 |
| | 782 | 51 | | 3 310 | 4 |
| 12.0 | 781 | 79 | S | 5 130 | 5 |
| | 795 | 84 | | 5 480 | 6 |
| 12.0 | 838 | 89 | S | 6 030 | 7 |
| 1 010 | 1 010 | 101 | | 8 810 | 8 |
| 12.0 | 885 | 102 | S | 8 770 | 9 |
| | 848 | 105 | | 8 880 | 10 |
| 12.0 | 884 | 105 | S | 8 280 | 11 |
| | 838 | 105 | | 7 880 | 12 |
| 13.0 | 811 | 105 | S | 7 380 | 13 |
| | 783 | 75 | | 5 210 | 14 |
| 13.0 | 791 | 42 | S | 2 870 | 15 |
| | 818 | 38 | | 2 750 | 16 |
| 13.0 | 832 | 40 | S | 2 880 | 17 |
| | 835 | 55 | | 4 040 | 18 |
| 14.0 | 817 | 56 | S | 4 080 | 19 |
| | 777 | 47 | | 3 180 | 20 |
| 14.0 | 728 | 43 | S | 2 700 | 21 |
| | 704 | 41 | | 2 480 | 22 |
| 14.0 | 768 | 46 | S | 2 740 | 23 |
| | 727 | 83 | | 5 210 | 24 |
| 14.0 | 784 | 144 | S | 9 880 | 25 |
| 14.0 | 1 080 | 184 | | 15 900 | 26 |
| 1 200 | 1 200 | 148 | S | 15 400 | 27 |
| 1 170 | 1 170 | 172 | | 17 400 | 28 |
| 14.0 | 1 180 | 240 | S | 24 100 | 29 |
| | 1 340 | 408 | | 47 200 | 30 |
| | | | | | 31 |
| | 26 072 | | | 245 230 | TOTAL |
| | 869 | | | 8 170 | MEAN |

### JUL

| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | | DAILY LOAD (t) |
|---|---|---|---|---|---|
| 1 | 14.0 | 1 830 | 822 | S | 88 300 |
| 2 | | 1 830 | 451 | | 71 300 |
| 3 | 14.0 | 1 880 | 267 | S | 40 800 |
| 4 | | 1 820 | 233 | | 30 800 |
| 5 | 14.0 | 1 480 | 211 | S | 26 400 |
| 6 | | 1 400 | 213 | | 25 800 |
| 7 | 14.0 | 1 900 | 225 | S | 28 200 |
| 8 | | 1 880 | 230 | | 33 400 |
| 9 | 14.0 | 1 730 | 233 | S | 33 300 |
| 10 | | 1 700 | 257 | | 34 800 |
| 11 | 14.0 | 1 830 | 267 | S | 37 800 |
| 12 | | 1 840 | 282 | | 37 800 |
| 13 | 14.0 | 1 840 | 259 | S | 34 800 |
| 14 | | 1 830 | 273 | | 36 400 |
| 15 | 13.0 | 1 840 | 302 | S | 42 800 |
| 16 | | 1 800 | 285 | | 40 800 |
| 17 | 12.0 | 1 800 | 280 | S | 36 700 |
| 18 | | 1 840 | 302 | | 40 200 |
| 19 | 13.0 | 1 830 | 327 | S | 43 200 |
| 20 | | 1 880 | 347 | | 47 400 |
| 21 | 14.0 | 1 870 | 380 | S | 51 800 |
| 22 | | 1 780 | 380 | | 57 600 |
| 23 | 15.0 | 1 830 | 384 | S | 82 300 |
| 24 | | 2 020 | 387 | | 85 300 |
| 25 | 15.0 | 2 170 | 351 | S | 73 300 |
| 26 | | 2 080 | 351 | | 70 800 |
| 27 | 15.0 | 1 870 | 384 | S | 85 400 |
| 28 | | 1 880 | 348 | | 48 200 |
| 29 | 15.0 | 1 800 | 80 | S | 5 880 |
| 30 | | 1 870 | 37 | | 5 300 |
| 31 | 15.0 | 2 100 | 48 | S | 8 380 |
| TOTAL | | 53 480 | | | 1 340 100 |
| MEAN | | 1 730 | | | 43 300 |

### AUG

| TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | | DAILY LOAD (t) |
|---|---|---|---|---|
| | 2 310 | 148 | | 28 100 |
| 15.0 | 2 290 | 356 | S | 70 400 |
| | 2 120 | 436 | | 79 800 |
| 15.0 | 1 940 | 388 | S | 66 400 |
| | 1 780 | 307 | | 31 800 |
| 15.0 | 1 840 | 100 | S | 14 200 |
| | 1 810 | 47 | | 8 130 |
| 15.0 | 1 450 | 22 | S | 2 780 |
| | 1 410 | 24 | | 2 820 |
| 15.0 | 1 380 | 37 | S | 4 380 |
| | 1 300 | 86 | | 8 280 |
| 15.0 | 1 220 | 77 | S | 8 120 |
| | 1 140 | 108 | | 10 400 |
| 14.0 | 1 080 | 120 | S | 11 300 |
| | 1 050 | 87 | | 8 800 |
| 13.0 | 1 010 | 88 | S | 3 080 |
| | 998 | 86 | | 4 810 |
| 12.0 | 988 | 82 | S | 8 280 |
| | 893 | 84 | | 4 830 |
| 11.0 | 882 | 48 | S | 4 070 |
| | 858 | 88 | | 6 140 |
| 12.0 | 845 | 93 | S | 4 280 |
| | 841 | 91 | | 6 150 |
| 12.0 | 805 | 80 | S | 3 810 |
| | 888 | 81 | | 3 820 |
| 12.0 | 838 | 81 | S | 3 880 |
| | 810 | 62 | | 2 840 |
| 12.0 | 778 | 38 | S | 1 880 |
| | 748 | 30 | | 1 290 |
| 13.0 | 723 | 31 | S | 1 210 |
| | 703 | 48 | | 2 920 |
| | 37 784 | | | 410 820 |
| | 1 220 | | | 13 200 |

### SEP

| TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | | DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|
| 13.0 | 887 | 88 | S | 4 040 | 1 |
| | 877 | 44 | | 2 870 | 2 |
| 12.0 | 870 | 23 | S | 1 910 | 3 |
| | 872 | 41 | | 2 380 | 4 |
| 11.0 | 886 | 41 | S | 2 380 | 5 |
| | 888 | 28 | | 1 800 | 6 |
| 10.0 | 878 | 15 | S | 878 | 7 |
| | 884 | 24 | | 1 420 | 8 |
| 9.0 | 708 | 37 | S | 2 380 | 9 |
| | 743 | 42 | | 2 700 | 10 |
| 8.0 | 757 | 41 | S | 2 880 | 11 |
| | 782 | 41 | | 2 880 | 12 |
| 8.0 | 741 | 43 | S | 2 758 | 13 |
| | 728 | 38 | | 2 280 | 14 |
| 7.0 | 704 | 24 | S | 1 480 | 15 |
| | 681 | 23 | | 1 380 | 16 |
| 8.0 | 688 | 24 | S | 1 380 | 17 |
| | 653 | 27 | | 1 530 | 18 |
| 7.0 | 644 | 30 | S | 1 870 | 19 |
| | 630 A | 30 | | 1 630 | 20 |
| 8.0 | 623 E | 27 | S | 1 480 | 21 |
| | 602 E | 27 | | 1 450 | 22 |
| 8.0 | 617 E | 30 | S | 1 880 | 23 |
| | 612 E | 32 | | 1 880 | 24 |
| 8.0 | 615 E | 30 | S | 1 880 | 25 |
| | 610 E | 24 | | 1 380 | 26 |
| 8.0 | 615 E | 19 | S | 1 020 | 27 |
| | 606 E | 16 | | 838 | 28 |
| 7.0 | 601 E | 15 | S | 788 | 29 |
| | 574 E | 16 | | 744 | 30 |
| | | | | | 31 |
| | 19 800 | | | 83 804 | TOTAL |
| | 883 | | | 1 780 | MEAN |

ALBERTA

ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07DD001

SUSPENDED SEDIMENT FOR 1983

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.0 | 883 E | 15 S | 730 | | | 7 | | | | | | 1 |
| 2 | | 856 E | 24 | 1 180 | 2.0 | | 7 S | | | | | | 2 |
| 3 | 7.0 | 848 E | 29 S | 1 380 | | | 8 | | | | | | 3 |
| 4 | | 848 E | 20 | 847 | 2.0 | | 8 S | | | | | | 4 |
| 5 | 8.0 | 848 E | 13 S | 919 | | | 8 | | | | | | 5 |
| 6 | | 883 E | 12 | 884 | 1.0 | | 8 S | | | | | | 6 |
| 7 | 8.0 | 898 E | 14 S | 888 | | | 8 | | | | | | 7 |
| 8 | | 880 E | 18 | 773 | 1.0 | | 7 S | | | | | | 8 |
| 9 | 8.0 | 864 E | 17 S | 788 | | | 7 | | | | | | 9 |
| 10 | | 833 E | 19 | 676 | 1.0 | | 7 S | | | | | | 10 |
| 11 | 4.0 | 838 E | 20 S | 909 | | | 7 | | | | | | 11 |
| 12 | | 833 E | 19 | 888 | 0.1 | | 7 S | | | | | | 12 |
| 13 | 4.0 | 818 E | 19 S | 847 | | | | | | | | | 13 |
| 14 | | 811 E | 18 | 708 | | | | | | | | | 14 |
| 15 | 3.0 | 811 E | 10 S | 462 | | | | | | | | | 15 |
| 16 | | 818 E | 9 | 403 | | | | | | | | | 16 |
| 17 | 3.0 | 838 E | 12 S | 847 | | | | | | | | | 17 |
| 18 | | 838 E | 22 | 1 600 | | | | | | | | | 18 |
| 19 | 3.0 | 838 E | 20 S | 1 330 | | | | | | | | | 19 |
| 20 | | 833 E | 22 | 884 | | | | | | | | | 20 |
| 21 | 3.0 | 838 E | 12 S | 848 | | | | | | | | | 21 |
| 22 | | 838 E | 11 | 489 | | | | | | | | | 22 |
| 23 | 3.0 | 831 E | 15 S | 878 | | | | | | | | | 23 |
| 24 | | 821 E | 15 | 878 | | | | | | | | | 24 |
| 25 | 3.0 | 824 E | 14 S | 834 | | | | | | | | | 25 |
| 26 | | 818 E | 12 | 838 | | | | | | | | | 26 |
| 27 | 3.0 | 813 E | 11 S | 488 | | | | | | | | | 27 |
| 28 | | 810 E | 16 | 708 | | | | | | | | | 28 |
| 29 | 3.0 | 806 E | 22 S | 883 | | | | | | | | | 29 |
| 30 | | 801 E | 18 | 883 | | | | | | | | | 30 |
| 31 | 3.0 | 498 E | 8 S | 388 | | | | | | | | | 31 |
| TOTAL | | 18 400 | | 23 388 | | | | | | | | | TOTAL |
| MEAN | | 839 | | 764 | | | | | | | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 12 18 N
LONG 111 23 24 W
DRAINAGE AREA 156 000 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07DD001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 01 | 09:00 | 1 030 H | 14.0 | 848 K | 15 | 20 | 33 | 46 | 83 | 87 | 88 | 98 | 100 | | | BNW |
| JUL 25 | 09:00 | 2 170 H | 15.0 | 381 K | 31 | 43 | 63 | 80 | 92 | 94 | 96 | 96 | 100 | | | BNW |

H - DAILY MEAN DISCHARGE  K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ATHABASCA RIVER AT MCMURRAY - STATION NO. 07EC002

SUSPENDED SEDIMENT FOR 1983

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | 84 S | | | | 118 | | 1 |
| 2 | | | | | | | | | | | 159 | | 2 |
| 3 | | | | | | | | | | | 218 | | 3 |
| 4 | | | | | | | | | | | 250 | | 4 |
| 5 | | | | | | | | | | | 239 S | | 5 |
| 6 | | | | | | | | | | | 222 | | 6 |
| 7 | | | | | | | | | | | 207 | | 7 |
| 8 | | | | | | | | | | | 191 | | 8 |
| 9 | | | | | | | | | | | 177 | | 9 |
| 10 | | | | | | | | | | | 165 | | 10 |
| 11 | | | | | | | | | | | 148 | | 11 |
| 12 | | | | | | | | | | | 120 | | 12 |
| 13 | | | | | | | | | | | 92 S | | 13 |
| 14 | | | | | | | | | | | 77 | | 14 |
| 15 | | | | | | | | | | | 68 S | | 15 |
| 16 | | | | | | | | | | | 59 | | 16 |
| 17 | | | | | | | | | | | 50 S | | 17 |
| 18 | | | | | | | | | | | 44 | | 18 |
| 19 | | | | | | | | | | | 48 | | 19 |
| 20 | | | | | | | | | | | 55 | | 20 |
| 21 | | | | | | | | | | | 58 | | 21 |
| 22 | | | | | | | | | | | 64 | | 22 |
| 23 | | | | | | | | | | | 80 S | | 23 |
| 24 | | | | | | | | | | | 171 | | 24 |
| 25 | | | | | | | | | | | 359 | | 25 |
| 26 | | | | | | | | | | | 602 | | 26 |
| 27 | | | | | | | | | | | 730 | | 27 |
| 28 | | | | | | | 145 S | | | | 685 | | 28 |
| 29 | | | | | | | 46 S | | | | 554 S | | 29 |
| 30 | | | | | | | 73 | | | | 508 | | 30 |
| 31 | | | | | | | 89 | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 489 | | | | 748 S | | | | 37 | | 1 |
| 2 | | | 521 | | | | 607 | | | | 34 | | 2 |
| 3 | | | 550 | | | | 504 | | | | 32 S | | 3 |
| 4 | | | 576 | | | | 427 S | | | | 32 | | 4 |
| 5 | | | 587 | | | | 346 S | | | | 33 | | 5 |
| 6 | | | 611 | | | | 248 | | | | 34 | | 6 |
| 7 | | | 636 | | | | 180 S | | | | 33 S | | 7 |
| 8 | | | 671 | | | | 160 | | | | 25 | | 8 |
| 9 | | | 699 | | | | 183 | | | | 18 S | | 9 |
| 10 | | | 684 | | | | 143 | | | | 23 | | 10 |
| 11 | | | 667 | | | | 133 | | | | 26 S | | 11 |
| 12 | | | 655 | | | | 132 S | | | | 37 | | 12 |
| 13 | | | 693 | | | | 127 | | | | 44 S | | 13 |
| 14 | | | 694 | | | | 123 | | | | | | 14 |
| 15 | | | 738 | | | | 121 | | | | | | 15 |
| 16 | | | 708 | | | | 113 | | | | | | 16 |
| 17 | | | 597 S | | | | 102 S | | | | | | 17 |
| 18 | | | 447 S | | | | 85 | | | | | | 18 |
| 19 | | | 480 | | | | 83 S | | | | | | 19 |
| 20 | | | 622 | | | | 81 | | | | | | 20 |
| 21 | | | 1 020 | | | | 61 S | | | | | | 21 |
| 22 | | | 1 580 | | | | 38 | | | | | | 22 |
| 23 | | | 1 600 | | | | 18 S | | | | | | 23 |
| 24 | | | 1 730 S | | | | 20 | | | | | | 24 |
| 25 | | | 1 270 | | | | 30 S | | | | | | 25 |
| 26 | | | 814 S | | | | 40 | | | | | | 26 |
| 27 | | | 783 | | | | 47 | | | | | | 27 |
| 28 | | | 807 S | | | | 51 S | | | | | | 28 |
| 29 | | | 804 | | | | 51 S | | | | | | 29 |
| 30 | | | 818 | | | | 47 | | | | | | 30 |
| 31 | | | 885 | | | | 41 | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

TYPE OF GAUGE - MANUAL
LOCATION - LAT 58 44 00 N
LONG 111 23 30 W
DRAINAGE AREA 95 700 $km^2$
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - RECORDS PRIOR TO 1979 PUBLISHED UNDER 07DA001

ALBERTA

CABIN CREEK NEAR SEEBE - STATION NO. 05BF019

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.003 | | | | 0.003 | | | | 0.003 | | | 1 |
| 2 | | 0.004 | | | | 0.004 | | | | 0.003 | | | 2 |
| 3 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 3 |
| 4 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 4 |
| 5 | | 0.004 | | | | 0.002 | | | | 0.003 | | | 5 |
| 6 | | 0.004 | | | | 0.003 | | | | | | | 6 |
| 7 | | 0.004 | | | | 0.002 | | | | 0.003 | | | 7 |
| 8 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 8 |
| 9 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 9 |
| 10 | | 0.004 | | | | 0.002 | | | | 0.003 | | | 10 |
| 11 | | 0.004 | | | | 0.002 | | | | | | | 11 |
| 12 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 12 |
| 13 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 13 |
| 14 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 14 |
| 15 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 15 |
| 16 | | 0.004 | | | | 0.003 | | | | | | | 16 |
| 17 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 17 |
| 18 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 18 |
| 19 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 19 |
| 20 | | 0.003 | | | | 0.003 | | | | 0.002 | | | 20 |
| 21 | | 0.003 | | | | 0.003 | | | | | | | 21 |
| 22 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 22 |
| 23 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 23 |
| 24 | | 0.003 | | | | 0.003 | | | | 0.003 | | | 24 |
| 25 | | 0.003 | | | | 0.003 | | | | 0.003 | | | 25 |
| 26 | | 0.003 | | | | | | | | | | | 26 |
| 27 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 27 |
| 28 | | 0.004 | | | | 0.003 | | | | 0.003 | | | 28 |
| 29 | | 0.004 | | | | | | | | 0.003 | | | 29 |
| 30 | | 0.003 | | | | | | | | 0.003 | | | 30 |
| 31 | | 0.002 | | | | | | | | 0.003 | | | 31 |
| TOTAL | | 0.115 | | | | 0.080 | | | | 0.083 | | | TOTAL |
| MEAN | | 0.004 | | | | 0.003 | | | | 0.003 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.003 | | | | 0.009 | | | 3.5 | 0.085 | 1.5 | 0.01 | 1 |
| 2 | | 0.003 | | | | 0.010 | | | | 0.082 | 1 | 0.01 | 2 |
| 3 | | 0.003 | | | | 0.011 | | | | 0.088 | 2 | 0.01 | 3 |
| 4 | | 0.003 | | | | 0.013 | | | | 0.072 | 2 | 0.01 | 4 |
| 5 | | 0.003 | | | | 0.014 | | | | 0.066 | 1 | 0.01 | 5 |
| 6 | | 0.003 | | | | 0.017 | | | | | | | 6 |
| 7 | | 0.003 | | | | 0.020 | | | | 0.085 | 3 | 0.02 | 7 |
| 8 | | 0.003 | | | | 0.022 | | | | 0.082 | 3 | 0.01 | 8 |
| 9 | | 0.003 | | | | 0.020 | | | 4.0 | 0.060 | 3.5 | 0.01 | 9 |
| 10 | | 0.003 | | | | 0.020 | | | | 0.058 | 1 | 0 | 10 |
| 11 | | 0.003 | | | | 0.020 | | | | 0.064 | 1 | 0 | 11 |
| 12 | | 0.003 | | | | 0.022 | | | | 0.051 | 1 | 0 | 12 |
| 13 | | 0.003 | | | | 0.025 | | | | 0.048 | 1 | 0 | 13 |
| 14 | | 0.003 | | | 0.1 | 0.028 | 34.5 | 0.08 | | 0.045 | 1 | 0 | 14 |
| 15 | | 0.003 | | | | 0.028 | 28 | 0.06 | | 0.042 | 5 | 0.02 | 15 |
| 16 | | 0.003 | | | | 0.028 | 33 | 0.08 | 5.0 | 0.042 | 18.5 | 0.06 | 16 |
| 17 | | 0.003 | | | | 0.035 | 32 | 0.10 | | 0.040 | 8 | 0.03 | 17 |
| 18 | | 0.004 | | | | 0.034 | 39 | 0.09 | | 0.040 | 5 | 0.03 | 18 |
| 19 | | 0.005 | | | | 0.031 | 35 | 0.07 | | 0.040 | 3 | 0.01 | 19 |
| 20 | | 0.007 | | | | 0.031 | 19 | 0.05 | | 0.038 | 1 | 0 | 20 |
| 21 | | 0.008 | | | 1.5 | 0.046 | 14.5 | 0.05 | | 0.034 | 1 | 0 | 21 |
| 22 | | 0.011 | | | | 0.088 | 10 | 0.08 | | | | | 22 |
| 23 | | 0.014 | | | | 0.080 | 7 | 0.05 | | 0.035 | 1 | 0 | 23 |
| 24 | | 0.020 | | | | 0.074 | 5 | 0.03 | | 0.042 | 5 | 0.02 | 24 |
| 25 | | 0.514 | | | | 0.068 | 4 | 0.03 | 5.0 | 0.042 | 5.5 | 0.02 | 25 |
| 26 | | 0.068 | | | | 0.077 | 4 | 0.03 | | 0.048 | 7 | 0.03 | 26 |
| 27 | | 0.027 | | | | | | | | 0.044 | 4 | 0.02 | 27 |
| 28 | | 0.007 | | | 3.0 | 0.084 | 2.5 | 0.02 | | | | | 28 |
| 29 | | 0.007 | | | | 0.078 | 2 | 0.02 | | 0.040 | 2 | 0.01 | 29 |
| 30 | | 0.006 | | | | 0.080 | 2 | 0.01 | 5.0 | 0.042 | 8.5 | 0.03 | 30 |
| 31 | | 0.005 | | | | 0.080 | 2 | 0.01 | 5.0 | 0.040 | 14 | 0.05 | 31 |
| | | | | | | 0.085 | 2 | 0.01 | | 0.040 | 15.5 | 0.05 | |
| | | | | | | 0.081 | 1 | 0.01 | | 0.039 | 13 | 0.04 | |
| TOTAL | | 0.178 | | | | 1.387 | | | | 1.483 | | 0.39 | TOTAL |
| MEAN | | 0.006 | | | | 0.040 | | | | 0.048 | | 0.03 | MEAN |

ALBERTA

CABIN CREEK NEAR BEIRE - STATION NO. 06SF010

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.037 | 12 | 0.04 | | 0.028 | 6 | 0.02 | | 0.012 | 3 | 0 | 1 |
| 2 | | 0.037 | 11 | 0.04 | | 0.028 | 6 | 0.01 | | 0.012 | 3 | 0 | 2 |
| 3 | | 0.078 | 19 | 0.13 | | 0.027 | 6 | 0.01 | | 0.012 | 3 | 0 | 3 |
| 4 | | 0.085 | 12 | 0.07 | | 0.026 | 6 | 0.01 | | 0.012 | 3 | 0 | 4 |
| 5 | | 0.068 | 12 | 0.07 | 7.5 | 0.026 E | 6 E | 0.02 | | 0.012 | 3 | 0 | 5 |
| 6 | | 0.065 | 11 | 0.08 | | 0.024 E | 10 | 0.02 | | | | | 6 |
| 7 | 8.0 | 0.061 | 12 E | 0.07 | | 0.023 E | 10 | 0.02 | | | | | 7 |
| 8 | | 0.060 | 12 | 0.07 | | 0.022 E | 11 | 0.02 | 8.5 | 0.012 | 3 | 0 | 8 |
| 9 | | 0.064 | 10 | 0.06 | | 0.022 E | 11 | 0.02 | | 0.014 | 5 E | 0.01 | 9 |
| 10 | | 0.061 | 8 | 0.04 | | 0.021 E | 12 | 0.03 | | 0.012 | 5 | 0.01 | 10 |
| 11 | | 0.048 | 7 | 0.03 | 8.0 | 0.020 A | 13 E | 0.02 | | 0.012 | 5 | 0.01 | 11 |
| 12 | | 0.049 | 5 | 0.03 | | 0.019 E | 13 | 0.02 | | 0.012 | 5 | 0.01 | 12 |
| 13 | 8.0 | 0.048 | 4 E | 0.02 | | 0.018 E | 11 | 0.02 | | 0.011 | 5 | 0 | 13 |
| 14 | | 0.048 | 5 | 0.02 | | 0.018 E | 11 | 0.02 | | 0.011 | 5 | 0 | 14 |
| 15 | | 0.043 | 4 | 0.01 | | 0.018 E | 10 | 0.01 | | 0.011 | 5 E | 0 | 15 |
| 16 | | 0.044 | 4 | 0.02 | | 0.018 E | 9 | 0.01 | | 0.011 | | | 16 |
| 17 | | 0.051 | 4 | 0.04 | | 0.018 E | 8 | 0.01 | | 0.011 | | | 17 |
| 18 | | 0.048 | 4 | 0.02 | | 0.017 A | 10 | 0.01 | | 0.011 | | | 18 |
| 19 | | 0.048 | 5 | 0.02 | 8.0 | 0.018 A | 8 E | 0.01 | | 0.011 | | | 19 |
| 20 | | 0.048 | 5 | 0.02 | | 0.018 E | 7 | 0.01 | | 0.011 | | | 20 |
| 21 | | 0.042 | 5 | 0.02 | | 0.018 E | 8 | 0.01 | | 0.011 | | | 21 |
| 22 | 8.0 | 0.040 | 4 E | 0.01 | 7.0 | 0.018 A | 3 E | 0 | | 0.011 | | | 22 |
| 23 | | 0.038 | 4 | 0.01 | | 0.018 | 3 | 0 | | 0.011 | | | 23 |
| 24 | | 0.037 | 4 | 0.01 | | 0.018 | 3 | 0 | | 0.010 | | | 24 |
| 25 | | 0.039 | 5 | 0.02 | | 0.018 | 3 | 0 | | 0.010 | | | 25 |
| 26 | | 0.038 | 5 | 0.02 | | 0.018 | 3 | 0 | | 0.010 | | | 26 |
| 27 | 8.0 | 0.033 | 5 E | 0.02 | | 0.014 | 3 | 0 | | 0.010 | | | 27 |
| 28 | | 0.032 | 5 | 0.02 | | 0.014 | 3 | 0 | | 0.010 | | | 28 |
| 29 | | 0.032 | 5 | 0.02 | | 0.013 | 3 | 0 | | 0.010 | | | 29 |
| 30 | | 0.031 | 5 | 0.02 | | 0.013 | 3 | 0 | | 0.010 | | | 30 |
| 31 | | 0.030 | 5 | 0.02 | | 0.013 | 3 | 0 | | | | | 31 |
| TOTAL | | 1.434 | | 1.06 | | 0.578 | | 0.32 | | 0.337 | | | TOTAL |
| MEAN | | 0.048 | | 0.03 | | 0.018 | | 0.01 | | 0.011 | | | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.008 | | | | 0.007 | | | | 0.004 E | | | 1 |
| 2 | | 0.008 | | | | 0.007 | | | | 0.004 E | | | 2 |
| 3 | | 0.008 | | | | 0.007 | | | | 0.004 E | | | 3 |
| 4 | | 0.008 | | | | 0.008 | | | | 0.004 E | | | 4 |
| 5 | | 0.008 | | | | 0.007 | | | | 0.004 E | | | 5 |
| 6 | | 0.008 | | | | 0.007 | | | | 0.004 E | | | 6 |
| 7 | | 0.008 | | | | 0.008 | | | | 0.004 E | | | 7 |
| 8 | | 0.008 | | | | 0.008 | | | | 0.004 E | | | 8 |
| 9 | | 0.008 | | | | 0.008 | | | | 0.004 E | | | 9 |
| 10 | | 0.008 | | | | 0.008 | | | | 0.003 E | | | 10 |
| 11 | | 0.007 | | | | 0.008 | | | | 0.003 E | | | 11 |
| 12 | | 0.007 | | | | 0.008 | | | | 0.003 E | | | 12 |
| 13 | | 0.007 | | | | 0.008 | | | | 0.003 E | | | 13 |
| 14 | | 0.007 | | | | 0.008 | | | | 0.003 A | | | 14 |
| 15 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 15 |
| 16 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 16 |
| 17 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 17 |
| 18 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 18 |
| 19 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 19 |
| 20 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 20 |
| 21 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 21 |
| 22 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 22 |
| 23 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 23 |
| 24 | | 0.007 | | | | 0.008 | | | | 0.003 | | | 24 |
| 25 | | 0.007 | | | | 0.008 A | | | | 0.003 | | | 25 |
| 26 | | 0.007 | | | | 0.008 E | | | | 0.003 | | | 26 |
| 27 | | 0.007 | | | | 0.008 E | | | | 0.003 | | | 27 |
| 28 | | 0.007 | | | | 0.008 E | | | | 0.003 | | | 28 |
| 29 | | 0.007 | | | | 0.008 E | | | | 0.003 | | | 29 |
| 30 | | 0.007 | | | | 0.004 E | | | | 0.003 | | | 30 |
| 31 | | 0.007 | | | | 0.004 E | | | | 0.003 | | | 31 |
| TOTAL | | 0.233 | | | | 0.170 | | | | 0.102 | | | TOTAL |
| MEAN | | 0.007 | | | | 0.006 | | | | 0.003 | | | MEAN |

A - MANUAL GAUGE

E - ESTIMATED

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 35 N
LONG 115 10 00 W
DRAINAGE AREA 2.12 $km^2$
NATURAL FLOW

ALBERTA

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 43.1 B | | | | 55.4 B | | | | 56.0 B | | | 1 |
| 2 | | 43.0 B | | | | 55.2 B | | | | 55.9 B | | | 2 |
| 3 | | 43.8 B | | | | 55.4 B | | | | 56.2 B | | | 3 |
| 4 | | 45.0 B | | | | 55.6 B | | | | 56.5 B | | | 4 |
| 5 | | 45.7 B | | | | 56.2 B | | | | 56.3 B | | | 5 |
| 6 | | 45.6 B | | | | | | | | | | | 6 |
| 7 | | 45.4 B | | | | 55.8 B | | | | 55.9 B | | | 7 |
| 8 | | 46.3 B | | | | 55.7 B | | | | 56.1 B | | | 8 |
| 9 | | 46.8 B | | | | 55.7 B | | | | 55.9 B | | | 9 |
| 10 | | 47.0 B | | | | 55.6 B | | | | 55.8 B | | | 10 |
| 11 | | 47.4 B | | | | 55.6 B | | | | 55.8 B | | | 11 |
| 12 | | 48.6 B | | | | 55.3 B | | | | 55.7 B | | | 12 |
| 13 | | 48.6 B | | | | 55.5 B | | | | 55.3 B | | | 13 |
| 14 | | 49.4 B | | | | 55.6 B | | | | 55.3 B | | | 14 |
| 15 | | 50.0 B | | | | 55.6 B | | | | 55.9 B | | | 15 |
| 16 | | 50.8 B | | | | 55.6 B | | | | 56.0 B | | | 16 |
| 17 | | 51.2 B | | | | 55.8 B | | | | 56.1 B | | | 17 |
| 18 | | 51.6 B | | | | 56.0 B | | | | 56.2 B | | | 18 |
| 19 | | 52.3 B | | | | 56.5 B | | | | 56.5 B | | | 19 |
| 20 | | 53.1 B | | | | 57.0 B | | | | 56.6 B | | | 20 |
| 21 | | 53.2 B | | | | 57.2 B | | | | 56.6 B | | | 21 |
| 22 | | 53.5 B | | | | 56.6 B | | | | 56.8 B | | | 22 |
| 23 | | 53.6 B | | | | 57.5 B | | | | 56.2 B | | | 23 |
| 24 | | 53.8 B | | | | 57.5 B | | | | 56.6 B | | | 24 |
| 25 | | 53.8 B | | | | 58.0 B | | | | 55.8 B | | | 25 |
| 26 | | 53.3 B | | | | 57.1 B | | | | | | | 26 |
| 27 | | 53.6 B | | | | 57.1 B | | | | 55.4 B | | | 27 |
| 28 | | 54.0 B | | | | 56.2 B | | | | 54.8 B | | | 28 |
| 29 | | 54.6 B | | | | 56.0 B | | | | 54.8 B | | | 29 |
| 30 | | 54.3 B | | | | | | | | 54.3 B | | | 30 |
| 31 | | 55.2 B | | | | | | | | 54.3 B | | | 31 |
| TOTAL | | 1 547.1 | | | | 1 571.2 | | | | 1 730.9 | | | TOTAL |
| MEAN | | 49.9 | | | | 56.1 | | | | 55.8 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 55.2 B | | | | 176 | | | | | | | |
| 2 | | 55.8 B | | | | 162 | | | | 124 | 27 | 288 | 1 |
| 3 | | 57.4 B | | | | 151 | | | | 123 | 28 | 298 | 2 |
| 4 | | 57.0 B | | | | 149 A | | | | 123 | 30 | 318 | 3 |
| 5 | | 58.0 B | | | | 148 | | | | 122 | 31 | 328 | 4 |
| 6 | | 61.4 B | | | | | | | 13.0 | 126 | 31 S | 338 | 5 |
| 7 | | 67.0 B | | | | 145 | | | | | | | |
| 8 | | 73.7 B | | | | 144 | | | | 127 | 32 | | |
| 9 | | 78.8 B | | | | 144 | | | 14.0 | 129 | 33 S | 368 | 6 |
| 10 | | 78.8 B | | | | 144 | | | | 126 | 36 | 398 | 7 |
| 11 | | 84.4 B | | | | 142 | | | | 129 | 38 | 428 | 8 |
| 12 | | 93.0 B | | | | | | | | 128 | 46 | 502 | 9 |
| 13 | | 99.2 B | | | | 142 | | | | | | | 10 |
| 14 | | 106 B | | | | 140 | | | | 132 | 57 | 650 | 11 |
| 15 | | 110 B | | | | 136 | | | | 139 | 74 | 888 | 12 |
| 16 | | 118 B | | | | 136 | | | 12.0 | 145 | 86 S | 1 230 | 13 |
| 17 | | 126 B | | | | 133 | | | | 150 | 97 | 1 260 | 14 |
| 18 | | 136 B | | | | | | | 13.0 | 155 | 88 S | 911 | 15 |
| 19 | | 152 B | | | | 131 | | | | | | | |
| 20 | | 170 B | | | | 129 | | | | 155 | 56 | 737 | 16 |
| 21 | | 175 B | | | | 127 | | | | 154 | 52 | 692 | 17 |
| 22 | | 177 | | | | 126 | | | | 150 | 50 | 648 | 18 |
| 23 | | 184 | | | | 126 | | | | 145 | 19 | 238 | 19 |
| 24 | | 204 | | | | | | | | 140 | 18 | 218 | 20 |
| 25 | | 224 | | | | 126 | | | | | | | |
| 26 | | 221 | | | | 129 | | | | 134 | 18 | 208 | 21 |
| 27 | | 216 | | | | 131 | | | 12.0 | 130 | 18 S | 202 | 22 |
| 28 | | 205 | | | | 132 | | | 18.0 | 127 | 33 S | 382 | 23 |
| 29 | 5.0 | 189 | 123 S | 2 010 | 10.0 | 132 | 36 S | 411 | | 128 | 42 | 484 | 24 |
| 30 | | 182 | | | 16.0 | 131 | 38 S | 430 | | 122 | 47 | 496 | 25 |
| 31 | | | | | | 128 | | | | | | | |
| | | | | | | 127 | | | | 119 | 52 | 535 | 26 |
| TOTAL | | 3 865.7 | | | | | | | | 119 | 57 | 586 | 27 |
| MEAN | | 127 | | | | 4 268 | | | 13.0 | 124 | 80 S | 843 | 28 |
| | | | | | | 137 | | | | 134 | 84 | 825 | 29 |
| | | | | | | | | | | 128 | 63 | 913 | 30 |
| | | | | | | | | | | | | | 31 |
| | | | | | | | | | | 3 987 | | 15 720 | TOTAL |
| | | | | | | | | | | 133 | | 524 | MEAN |

ALBERTA

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 139 | 33 S | 398 | 17.0 | 183 | 84 S | 1 570 | | 85.3 | 54 | 398 | 1 |
| 2 | | 140 | 30 | 383 | | 182 | 80 | 1 480 | | 86.8 | 87 | 683 | 2 |
| 3 | | 137 | 28 | 362 | | 186 | 87 | 1 410 | 18.0 | 89.4 | 112 S | 885 | 3 |
| 4 | | 133 | 28 | 322 | 18.0 | 184 | 85 S | 1 350 | | 84.0 | 81 | 739 | 4 |
| 5 | | 128 | 28 | 310 | 18.0 | 178 | 82 S | 1 280 | | 105 | 88 | 539 | 5 |
| 6 | | 124 | 27 | 289 | | 173 | 78 | 1 140 | | 117 | 41 | 414 | 6 |
| 7 | | 119 | 27 | 276 | | 166 | 87 | 873 | 18.0 | 126 | 36 S | 381 | 7 |
| 8 | | 118 | 27 | 271 | 13.0 | 162 | 86 S | 812 | | 130 | 37 | 416 | 8 |
| 9 | | 115 | 26 | 258 | 16.0 | 155 | 83 S | 710 | | 132 | 40 | 456 | 9 |
| 10 | | 112 | 26 | 252 | | 148 | 43 | 542 | | 132 | 42 | 479 | 10 |
| 11 | | 110 | 25 | 238 | | 137 | 38 | 414 | | 132 | | | 11 |
| 12 | | 109 | 25 | 235 | 18.0 | 130 | 27 S | 303 | | 131 | | | 12 |
| 13 | | 107 | 24 | 222 | | 123 | 24 | 255 | | 130 | | | 13 |
| 14 | | 106 | 24 | 220 | | 118 | 24 | 245 | | 128 | | | 14 |
| 15 | | 108 | 23 | 218 | | 114 | 23 | 227 | | 128 | | | 15 |
| 16 | | 108 | 23 | 217 | | 112 | 28 | 282 | | 127 | | | 16 |
| 17 | 18.0 | 111 | 22 S | 211 | 18.0 | 110 | 29 S | 276 | | 128 | | | 17 |
| 18 | 18.0 | 112 | 21 S | 203 | | 108 | 82 | 684 | | 128 | | | 18 |
| 19 | | 114 | 27 | 266 | 18.0 | 107 | 106 S | 980 | | 130 | | | 19 |
| 20 | | 116 | 36 | 358 | | 105 | 101 | 918 | | 131 | | | 20 |
| 21 | | 115 | 48 | 477 | 18.0 | 104 | 75 S | 674 | | 132 | | | 21 |
| 22 | | 116 | 82 | 821 | | 102 | 49 | 432 | | 130 | | | 22 |
| 23 | | 126 | 77 | 838 | 17.0 | 100 | 28 S | 242 | | 129 | | | 23 |
| 24 | 21.0 | 150 | 92 S | 1 190 | | 98.1 | 25 | 214 | | 127 | | | 24 |
| 25 | | 154 | 103 | 1 370 | 18.0 | 96.8 | 28 S | 234 | | 125 | | | 25 |
| 26 | 18.0 | 153 | 110 S | 1 480 | | 94.7 | 43 | 352 | | 122 | | | 26 |
| 27 | | 153 | 111 | 1 470 | 17.0 | 93.7 | 58 S | 470 | | 119 | | | 27 |
| 28 | 18.0 | 150 | 111 S | 1 530 | 18.0 | 90.8 | 30 S | 235 | | 114 | | | 28 |
| 29 | | 178 | 108 | 1 880 | 15.0 | 89.1 | 24 S | 185 | | 113 | | | 29 |
| 30 | | 188 | 104 | 1 700 | | 88.1 | 28 | 198 | | 110 | | | 30 |
| 31 | | 183 | 99 | 1 650 | | 88.8 | 33 | 247 | | | | | 31 |
| TOTAL | | 4 051 | | 19 423 | | 3 948.2 | | 19 182 | | 3 613.6 | | | TOTAL |
| MEAN | | 131 | | 627 | | 127 | | 619 | | 120 | | | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 108 | | | | 102 | | | | 75.1 B | | | 1 |
| 2 | | 108 | | | | 100 | | | | 73.5 B | | | 2 |
| 3 | | 105 | | | | 101 | | | | 72.1 B | | | 3 |
| 4 | | 104 | | | | 100 | | | | 71.2 B | | | 4 |
| 5 | | 102 | | | | 103 | | | | 69.7 B | | | 5 |
| 6 | | 99.6 | | | | | | | | | | | |
| 7 | | 99.2 | | | | 105 | | | | 68.8 B | | | 6 |
| 8 | | 99.3 | | | | 109 | | | | 67.7 B | | | 7 |
| 9 | | 98.1 | | | | 107 | | | | 67.0 B | | | 8 |
| 10 | | 98.2 | | | | 103 | | | | 66.0 B | | | 9 |
| | | | | | | 94.0 | | | | 66.3 B | | | 10 |
| 11 | | 97.1 | | | | | | | | | | | |
| 12 | | 96.4 | | | | 96.7 B | | | | 64.5 B | | | 11 |
| 13 | | 96.5 | | | | 96.1 B | | | | 63.5 B | | | 12 |
| 14 | | 97.6 | | | | 93.4 B | | | | 63.0 B | | | 13 |
| 15 | | 103 | | | | 91.6 B | | | | 63.0 B | | | 14 |
| | | | | | | 90.1 B | | | | 61.0 B | | | 15 |
| 16 | | 107 | | | | | | | | | | | |
| 17 | | 109 | | | | 90.2 B | | | | 60.0 B | | | 16 |
| 18 | | 111 | | | | 91.4 B | | | | 59.0 B | | | 17 |
| 19 | | 112 | | | | 94.7 B | | | | 58.0 B | | | 18 |
| 20 | | 112 | | | | 94.0 B | | | | 57.0 B | | | 19 |
| | | | | | | 90.6 B | | | | 56.5 B | | | 20 |
| 21 | | 112 | | | | | | | | | | | |
| 22 | | 112 | | | | 80.2 B | | | | 56.0 B | | | 21 |
| 23 | | 112 | | | | 74.6 B | | | | 55.7 B | | | 22 |
| 24 | | 111 | | | | 70.2 B | | | | 55.2 B | | | 23 |
| 25 | | 108 | | | | 61.6 B | | | | 55.1 B | | | 24 |
| | | | | | | 61.0 B | | | | 54.6 B | | | 25 |
| 26 | | 108 | | | | | | | | | | | |
| 27 | | 107 | | | | 56.0 B | | | | 54.5 B | | | 26 |
| 28 | | 106 | | | | 58.0 B | | | | 54.4 B | | | 27 |
| 29 | | 104 | | | | 61.3 B | | | | 54.0 B | | | 28 |
| 30 | | 104 | | | | 71.1 B | | | | 53.6 B | | | 29 |
| 31 | | 103 | | | | 76.6 B | | | | 53.7 B | | | 30 |
| | | | | | | | | | | 53.8 B | | | 31 |
| TOTAL | | 3 248.0 | | | | 2 604.2 | | | | 1 901.8 | | | TOTAL |
| MEAN | | 105 | | | | 86.8 | | | | 61.4 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 40 50 N
LONG 111 15 00 W
DRAINAGE AREA 30 800 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

OBERLICK CREEK NEAR HINTON - STATION NO. 07AF004

SUSPENDED SEDIMENT FOR 1983

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.012 E | 2 | 0 | | 0.330 E | 13 | 0.37 | | 0.173 | 7 | 0.10 | 1 |
| 2 | | 0.013 E | 2 | 0 | | 0.313 | 12 | 0.32 | | 0.174 | 7 | 0.11 | 2 |
| 3 | | 0.013 E | 2 | 0 | | 0.281 E | 12 | 0.28 | | 0.184 | 8 E | 0.14 | 3 |
| 4 | | 0.014 E | 2 | 0 | | 0.300 | 12 | 0.31 | 5.0 | 0.173 | 7 | 0.10 | 4 |
| 5 | | 0.015 E | 2 | 0 | 1.5 | 0.336 | 17 E | 0.49 | | 0.188 | 8 | 0.13 | 5 |
| 6 | | | | | | | | | | | | 0.08 | 6 |
| 7 | | 0.016 E | 2 | 0 | | 0.998 | 38 | 1.16 | | | | | |
| 8 | | 0.015 E | 2 | 0 | 1.0 | 0.430 | 18 E | 0.71 | 5.0 | 0.181 | 5 E | | |
| 9 | | 0.014 E | 2 | 0 | 1.5 | 0.378 | 24 E | 0.78 | | 0.168 | 4 | 0.07 | 7 |
| 10 | | 0.012 E | 2 | 0 | 1.4 | 0.344 | 14 E | 0.42 | | 0.138 | 4 | 0.05 | 8 |
| | | 0.010 E | 2 | 0 | | 0.381 | 15 | 0.47 | | 0.128 | 3 | 0.05 | 9 |
| 11 | | | | | | | | | 5.4 | 0.110 | 3 E | 0.03 | 10 |
| 12 | | 0.011 E | 2 | 0 | | 0.380 | 14 | 0.44 | | | | 0.03 | |
| 13 | | 0.013 E | 2 | 0 | 1.0 | 0.302 | 11 E | 0.29 | | 0.111 | 3 | 0.03 | 11 |
| 14 | | 0.015 E | 3 | 0 | 3.0 | 0.334 | 10 E | 0.29 | | 0.105 | 3 | 0.03 | 12 |
| 15 | | 0.025 E | 7 | 0 | 1.5 | 0.478 | 17 E | 0.70 | | 0.105 | 3 | 0.03 | 13 |
| | | 0.035 E | 9 | 0.02 | | 0.422 | 11 | 0.40 | | 0.101 | 3 | 0.03 | 14 |
| 16 | | | | 0.03 | | | | | | 0.097 | 3 | 0.03 | 15 |
| 17 | | 0.035 E | 8 | | | 0.378 | 10 | | | | | | |
| 18 | | 0.080 E | 8 | 0.02 | | 0.367 | 9 | 0.33 | 5.5 | 0.100 | 3 E | | |
| 19 | | 0.140 E | 7 | 0.05 | | 0.320 | 8 E | 0.27 | | 0.095 | 3 | 0.03 | 16 |
| 20 | | 0.208 E | 13 | 0.08 | | 0.287 | 7 E | 0.22 | | 0.092 | 3 | 0.02 | 17 |
| | | 0.245 E | 17 | 0.23 | 2.5 | 0.267 | 7 | 0.18 | | 0.092 | 3 | 0.02 | 18 |
| 21 | 0.1 | 0.288 E | 21 E | 0.36 | | | | 0.17 | 5.0 | 0.218 | 20 E | 0.02 | 19 |
| 22 | | 0.315 E | 18 | | | 0.273 | 7 | | | | | 0.36 | 20 |
| 23 | | 0.350 E | 24 | 0.84 | | 0.285 | 7 | 0.17 | 5.8 | 0.233 | 18 E | | |
| 24 | | 0.420 E | 36 | 0.49 | 4.5 | 0.261 | 8 E | 0.18 | | 0.170 | 8 E | 0.33 | 21 |
| 25 | 1.0 | 0.390 E | 48 E | 0.86 | | 0.218 | 8 | 0.17 | 5.8 | 0.212 | 32 E | 0.13 | 22 |
| | | | | 1.26 | | 0.197 | | 0.15 | 5.2 | 0.782 | 148 E | 1.89 | 23 |
| 26 | | | | 1.82 | | | | 0.14 | 5.0 | 0.882 | 22 E | 0.68 | 24 |
| 27 | | 0.375 E | 34 | | | | | | | | | 1.05 | 25 |
| 28 | | 0.355 E | 28 | 1.10 | 7.2 | 0.178 | 6 E | 0.12 | | 0.448 | 12 | | |
| 29 | | 0.345 E | 23 | 0.68 | 3.8 | 0.187 | 7 E | 0.10 | | 0.556 | 14 | 0.47 | 26 |
| 30 | | 0.337 E | 19 | 0.88 | | 0.183 | 7 | 0.10 | | 0.416 | 10 | 0.87 | 27 |
| 31 | | 0.288 | 15 | 0.55 | | 0.182 | 7 | 0.10 | | 0.388 | 7 | 0.36 | 28 |
| | | | | 0.41 | | 0.183 | 7 | 0.10 | | 0.338 | 4 E | 0.22 | 29 |
| TOTAL | | 6.407 | | | | 0.188 | 7 | 0.10 | 5.2 | | | 0.12 | 30 |
| MEAN | | 0.167 | | 9.12 | | | | 0.10 | | | | | 31 |
| | | | | 0.30 | | 9.194 | | 3.89 | | 5.735 | | | |
| | | | | | | 0.288 | | 0.32 | | 0.324 | | 18.27 | TOTAL |
| | | | | | | | | | | | | 0.84 | MEAN |

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.328 | 4 | 0.11 | | 0.047 | 1 | 0 | | 0.019 | 1 | 0 | |
| 2 | | 0.310 | 4 | 0.11 | | 0.045 | 1 | 0 | 10.4 | 0.023 | 1 E | 0 | 1 |
| 3 | | 0.328 | 4 | 0.22 | | 0.043 | 0 | 0 | | 0.020 | 1 | 0 | 2 |
| 4 | 6.5 | 0.284 | 4 E | 0.08 | | 0.042 | 0 | 0 | | 0.020 | 1 | 0 | 3 |
| 5 | | 0.212 | 4 | 0.07 | 10.3 | 0.041 | 0 E | 0 | | 0.022 | 1 | 0 | 4 |
| 6 | | | | | | | | | | | | 0 | 5 |
| 7 | | 0.188 | 4 | 0.07 | | 0.039 | 0 | 0 | | 0.018 | 2 | 0 | |
| 8 | | 0.183 | 4 | 0.06 | | 0.038 | 0 | 0 | | 0.018 | 2 | 0 | 6 |
| 9 | | 0.148 | 5 | 0.06 | | 0.036 | 0 | 0 | | 0.018 | 2 | 0 | 7 |
| 10 | 6.8 | 0.131 | 4 | 0.05 | | 0.038 | 0 | 0 | 2.8 | 0.028 | 2 E | 0 | 8 |
| | | 0.096 | 5 E | 0.04 | | 0.033 | 0 | 0 | | 0.026 | 2 | 0 | 9 |
| 11 | | | | | | | | | | | | 0 | 10 |
| 12 | | 0.078 | 4 | 0.03 | | 0.032 | 0 | 0 | | 0.023 | 2 | | |
| 13 | | 0.058 | 3 | 0.02 | 11.0 | 0.036 | 0 E | 0 | | 0.021 | 2 | 0 | 11 |
| 14 | | 0.048 | 2 | 0.01 | | 0.030 | 0 | 0 | | 0.020 | 3 | 0 | 12 |
| 15 | | 0.043 | 2 | 0.01 | | 0.030 | 0 | 0 | | 0.018 | 3 | 0.01 | 13 |
| | 5.2 | 0.056 | 1 E | 0 | | 0.030 | 0 | 0 | | 0.018 | 3 | 0 | 14 |
| 16 | | | | | | | | | | | | 0 | 15 |
| 17 | | 0.100 | 2 | 0.02 | | 0.028 | 0 | 0 | 4.5 | 0.023 | 3 E | | |
| 18 | | 0.097 | 4 | 0.03 | | 0.028 | 0 | 0 | | 0.028 | 3 | 0.01 | 16 |
| 19 | | 0.108 | 4 | 0.04 | | 0.027 | 0 | 0 | | 0.024 | 3 | 0.01 | 17 |
| 20 | | 0.088 | 3 | 0.02 | | 0.026 | 0 | 0 | | 0.030 | 4 | 0.01 | 18 |
| | | 0.098 | 3 | 0.02 | 5.7 | 0.026 | 0 E | 0 | | 0.020 | 4 | 0.01 | 19 |
| 21 | 10.0 | 0.088 | 3 E | 0.02 | | | | | | | | 0.01 | 20 |
| 22 | | 0.079 | 2 | 0.01 | 5.6 | 0.033 | 0 | 0 | 4.8 | 0.023 | 4 E | | |
| 23 | | 0.071 | 2 | 0.01 | | 0.033 | 0 | 0 | | 0.022 | 4 | 0.01 | 21 |
| 24 | | 0.088 | 1 | 0.01 | | 0.032 | 0 | 0 | | 0.020 | 3 | 0.01 | 22 |
| 25 | 8.5 | 0.082 | 1 E | 0.01 | 9.0 | 0.033 | 0 E | 0 | | 0.018 | 3 | 0.01 | 23 |
| | | | | | | | | | | | | 0 | 24 |
| 26 | | 0.078 | 1 | 0.01 | | 0.021 | 0 | 0 | | 0.017 | 3 | 0 | 25 |
| 27 | | 0.068 | 1 | 0.01 | | 0.020 | 0 | 0 | | 0.022 | 3 | 0 | 26 |
| 28 | | 0.065 | 1 | 0 | | 0.018 | 0 | 0 | | 0.020 | 3 | 0.01 | 27 |
| 29 | | 0.064 | 1 | 0 | | 0.018 | 0 | 0 | | 0.018 | 2 | 0.01 | 28 |
| 30 | | 0.051 | 1 | 0 | | 0.018 | 0 | 0 | | 0.018 | 2 E | 0 | 29 |
| 31 | 13.0 | 0.049 | 1 | 0 | | 0.018 | 0 | 0 | | | | 0 | 30 |
| | | | | | | | | | | | | | 31 |
| TOTAL | | 3.868 | | 1.18 | | 0.833 | | 0 | | 0.838 | | 0.11 | TOTAL |
| MEAN | | 0.117 | | 0.04 | | 0.030 | | 0 | | 0.021 | | 0 | MEAN |

ALBERTA

BEAVERLICK CREEK NEAR HINTON - STATION NO. 07AF004

SUSPENDED SEDIMENT FOR 1983

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.020 | 3 | 0.01 | | 0.031 B | 7 | 0.02 | | | | | 1 |
| 2 | | 0.021 | 3 | 0.01 | | 0.040 B | 10 | 0.03 | | | | | 2 |
| 3 | | 0.022 | 4 | 0.01 | 0.1 | 0.060 B | 13 S | 0.06 | | | | | 3 |
| 4 | | 0.027 | 4 | 0.01 | | | | | | | | | 4 |
| 5 | | 0.024 | 5 | 0.01 | | | | | | | | | 5 |
| 6 | 1.0 | 0.022 | 5 S | 0.01 | | | | | | | | | 6 |
| 7 | | 0.019 | 5 | 0.01 | | | | | | | | | 7 |
| 8 | | 0.017 | 5 | 0.01 | | | | | | | | | 8 |
| 9 | | 0.018 | 5 | 0.01 | | | | | | | | | 9 |
| 10 | | 0.017 | 5 | 0.01 | | | | | | | | | 10 |
| 11 | | 0.018 | 5 | 0.01 | | | | | | | | | 11 |
| 12 | | 0.018 | 5 | 0.01 | | | | | | | | | 12 |
| 13 | | 0.018 | 5 | 0.01 | | | | | | | | | 13 |
| 14 | | 0.032 | 5 S | 0.02 | | | | | | | | | 14 |
| 15 | | 0.035 | 4 | 0.01 | | | | | | | | | 15 |
| 16 | | 0.025 | 2 | 0 | | | | | | | | | 16 |
| 17 | | 0.021 | 1 | 0 | | | | | | | | | 17 |
| 18 | | 0.021 | 1 | 0 | | | | | | | | | 18 |
| 19 | | 0.020 | 0 S | 0 | | | | | | | | | 19 |
| 20 | | 0.020 | 0 | 0 | | | | | | | | | 20 |
| 21 | | 0.019 | 0 | 0 | | | | | | | | | 21 |
| 22 | | 0.019 | 0 | 0 | | | | | | | | | 22 |
| 23 | | 0.018 B | 1 | 0 | | | | | | | | | 23 |
| 24 | | 0.021 B | 3 | 0.01 | | | | | | | | | 24 |
| 25 | | 0.017 | 1 | 0 | | | | | | | | | 25 |
| 26 | | 0.018 | 1 | 0 | | | | | | | | | 26 |
| 27 | | 0.038 | 4 S | 0.01 | | | | | | | | | 27 |
| 28 | | 0.030 B | 8 | 0.02 | | | | | | | | | 28 |
| 29 | | 0.026 B | 5 | 0.01 | | | | | | | | | 29 |
| 30 | | 0.023 B | 5 | 0.01 | | | | | | | | | 30 |
| 31 | | 0.031 B | 6 | 0.02 | | | | | | | | | 31 |
| TOTAL | | 0.688 | | 0.24 | | | | | | | | | TOTAL |
| MEAN | | 0.022 | | 0.01 | | | | | | | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 148 ON JUN 24
MINIMUM DAILY 0 ON AUG 03

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 9.85 ON JUN 24
MINIMUM DAILY 0 ON APR 01

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 20 N
LONG 117 14 38 W
DRAINAGE AREA 14.0 $km^2$
NATURAL FLOW

ALBERTA

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 0.042 B | | | 1 |
| 2 | | | | | | | | | | 0.036 B | | | 2 |
| 3 | | | | | | | | | | 0.040 B | | | 3 |
| 4 | | | | | | | | | | 0.032 B | | | 4 |
| 5 | | | | | | | | | | 0.027 B | | | 5 |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | 0.025 B | | | |
| 8 | | | | | | | | | | 0.025 B | | | 6 |
| 9 | | | | | | | | | | 0.027 B | | | 7 |
| 10 | | | | | | | | | | 0.030 B | | | 8 |
| | | | | | | | | | | 0.035 B | | | 9 |
| 11 | | | | | | | | | | | | | 10 |
| 12 | | | | | | | | | | 0.037 B | | | |
| 13 | | | | | | | | | | 0.042 B | | | 11 |
| 14 | | | | | | | | | | 0.047 B | | | 12 |
| 15 | | | | | | | | | | 0.048 B | | | 13 |
| | | | | | | | | | | 0.051 B | | | 14 |
| 16 | | | | | | | | | | | | | 15 |
| 17 | | | | | | | | | | 0.058 B | | | |
| 18 | | | | | | | | | | 0.058 B | | | 16 |
| 19 | | | | | | | | | | 0.057 B | | | 17 |
| 20 | | | | | | | | | | 0.050 B | | | 18 |
| | | | | | | | | | | 0.040 B | | | 19 |
| 21 | | | | | | | | | | | | | 20 |
| 22 | | | | | | 0.080 B | | | | 0.038 B | | | |
| 23 | | | | | | 0.083 B | | | | 0.034 B | | | 21 |
| 24 | | | | | | 0.054 B | | | | 0.033 B | | | 22 |
| 25 | | | | | | 0.048 B | | | | 0.034 B | | | 23 |
| | | | | | | 0.047 B | | | | 0.036 B | | | 24 |
| 26 | | | | | | | | | | | | | 25 |
| 27 | | | | | | 0.042 B | | | | 0.038 B | | | |
| 28 | | | | | | 0.038 B | | | | 0.042 B | | | 26 |
| 29 | | | | | | 0.039 B | | | | 0.048 B | | | 27 |
| 30 | | | | | | | | | | 0.063 B | | | 28 |
| 31 | | | | | | | | | | 0.088 B | | | 29 |
| | | | | | | | | | | 0.130 B | | | 30 |
| | | | | | | | | | | | | | 31 |
| TOTAL | | | | | | | | | | 1.386 | | | |
| MEAN | | | | | | | | | | 0.045 | | | TOTAL MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.303 B | | | | 1.43 | 20 | | | | | | |
| 2 | | 0.282 B | | | | 1.33 | 18 | 2.47 | | 1.33 | 7 | 0.80 | 1 |
| 3 | | 0.284 B | | | 9.0 | 1.39 | 20 S | 2.07 | | 1.27 | 8 | 0.86 | 2 |
| 4 | | 0.325 B | | | | 1.88 | 23 | 2.40 | 19.0 | 1.21 | 8 S | 0.82 | 3 |
| 5 | | 0.401 B | | | | 1.88 | 25 | 3.38 | | 1.14 | 8 | 0.69 | 4 |
| | | | | | | | | 4.06 | | 1.07 | 8 | 0.46 | 5 |
| 6 | | 0.406 B | | | 8.0 | 2.33 | 25 S | | | | | | |
| 7 | | 0.518 B | | | | 2.48 | 28 | 5.84 | | 1.11 | 8 | 0.88 | 6 |
| 8 | | 0.577 B | | | | 2.60 | 31 | 6.18 | 21.0 | 1.20 | 7 S | 0.73 | 7 |
| 9 | | 0.881 B | | | 12.0 | 2.88 | 31 S | 6.86 | | 1.18 | 7 | 0.70 | 8 |
| 10 | | 0.888 B | | | | 2.85 | 31 | 7.71 | | 1.13 | 7 | 0.88 | 9 |
| | | | | | | | | 7.83 | 21.0 | 1.08 | 7 S | 0.84 | 10 |
| 11 | | 0.500 B | | | | 2.62 | 28 | | | | | | |
| 12 | | 0.487 B | | | | 2.18 | 28 | 6.06 | | 1.12 | 8 | | |
| 13 | | 0.488 B | | | 12.0 | 1.88 | 23 S | 4.80 | | 1.04 | 13 | 0.77 | 11 |
| 14 | | 0.878 B | | | | 1.78 | 21 | 3.89 | | 1.01 | 13 | 1.84 | 12 |
| 15 | | 0.813 B | | | | 1.68 | 19 | 3.18 | 22.0 | 1.71 | 13 S | 1.81 | 13 |
| | | | | | | | | 2.64 | | 1.70 | 13 | 1.82 | 14 |
| 16 | | 0.735 B | | | | 1.45 | 18 | | | | | 1.81 | 15 |
| 17 | | 0.892 B | | | | 1.45 | 18 S | 2.00 | | | | | |
| 18 | | 1.83 B | | | 13.0 | 1.58 | 13 | 1.68 | | 1.41 | 11 | 1.34 | 16 |
| 19 | | 2.15 B | | | | 1.81 | 10 | 1.75 | 22.0 | 1.18 | 10 S | 1.00 | 17 |
| 20 | 7.0 | 2.17 | 35 S | 10.7 | 16.0 | 1.70 | 8 S | 1.38 | | 1.25 | 10 | 1.08 | 18 |
| | | | | | | | | 1.18 | 11.1 | | 83 | 80.4 | 19 |
| 21 | | 2.36 | 43 | 12.1 | | | | | 12.0 | 84.0 | 1 930 S | 15 700 | 20 |
| 22 | | 2.57 | 45 | 14.3 | | 2.39 | 15 | 3.10 | | | | | |
| 23 | | 2.60 | 43 | 12.8 | | 4.00 | 28 | 8.88 | 11.0 | 77.3 | 1 780 S | 11 800 | 21 |
| 24 | | 2.88 | 38 | 9.08 | 12.0 | 3.58 | 23 S | 6.77 | | 38.1 | 700 | 2 300 | 22 |
| 25 | | 2.83 | 35 | 7.95 | | 3.54 | 20 | 8.12 | | 32.2 | 402 | 771 | 23 |
| | | | | | | 2.70 | 17 | 3.87 | 14.0 | 13.6 | 283 S | 314 | 24 |
| 26 | 10.0 | 2.12 | 31 S | 5.68 | | | | | 12.0 | 81.8 | 2 030 S | 20 100 | 25 |
| 27 | 8.0 | 1.88 | 27 S | 3.89 | | 2.40 | 15 | 3.11 | 11.0 | 282 | 4 380 S | 98 800 | 26 |
| 28 | | 1.32 | 22 | 2.51 | 20.0 | 2.12 | 13 S | 2.38 | 11.0 | 88.5 | 1 810 S | 14 100 | 27 |
| 29 | | 1.17 | 18 | 1.82 | | 1.84 | 12 | 1.81 | 11.5 | 48.5 | 828 S | 3 880 | 28 |
| 30 | 8.0 | 1.28 | 18 S | 2.08 | | 1.88 | 10 | 1.43 | | 29.8 | 514 | 1 320 | 29 |
| 31 | | | | | 20.0 | 1.50 | 8 S | 1.04 | | 21.2 | 386 | 670 | 30 |
| | | | | | 22.0 | 1.42 | 8 S | 0.98 | | | | | 31 |
| TOTAL | | 30.187 | | | | 85.80 | | 117.74 | | 818.87 | | 193 533.33 | TOTAL |
| MEAN | | 1.31 | | | | 2.12 | | 3.80 | | 27.3 | | 6 880 | MEAN |

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 18.0 | 231 | 359 | | 15.0 E | 388 | 472 | | 0.974 | 27 | 2.27 | 1 |
| 2 | | 18.8 | 148 | 214 | 20.0 | 10.2 A | 239 S | 213 | 20.0 | 0.898 | 23 S | 1.80 | 2 |
| 3 | | 14.2 | 122 | 150 | | 11.1 | 276 | 264 | | 0.804 | 26 | 1.85 | 3 |
| 4 | | 12.0 | 88 | 89.5 | | 11.0 | 283 | 270 | | 1.01 | 42 | 3.67 | 4 |
| 5 | 18.0 | 18.2 | 388 S | 591 | 20.0 | 7.83 | 188 S | 114 | | 1.17 | 78 | 7.88 | 5 |
| 6 | | 21.4 | 431 | 797 | | 7.38 | 171 | 108 | 14.0 | 3.18 | 278 S | 76.1 | 6 |
| 7 | | 15.2 | 188 | 322 | | 8.21 | 170 | 91.2 | | 5.09 | 348 | 153 | 7 |
| 8 | | 12.2 | 180 | 180 | | 4.58 | 148 | 57.8 | | 3.58 | 223 | 68.4 | 8 |
| 9 | 13.5 | 44.9 | 1 980 S | 7 880 | 22.0 | 3.84 | 116 S | 38.2 | 14.0 | 3.03 | 127 S | 35.3 | 9 |
| 10 | 16.0 | 29.8 | 803 S | 2 070 | | 3.04 | 102 | 26.8 | | 3.04 | 181 | 61.6 | 10 |
| 11 | | 17.8 | 204 | 310 | | 2.75 | 91 | 21.8 | | 3.80 | 187 | 58.3 | 11 |
| 12 | 14.0 | 12.5 | 194 S | 210 | | 2.19 | 78 | 14.8 | | 3.13 | 108 | 29.2 | 12 |
| 13 | | 10.1 | 201 | 175 | 18.0 | 1.87 | 78 S | 12.3 | 12.0 | 2.80 | 72 S | 16.2 | 13 |
| 14 | | 15.4 | 282 | 349 | | 2.03 | 155 | 28.2 | | 2.32 | 83 | 12.8 | 14 |
| 15 | 16.0 | 21.5 | 435 S | 808 | | 5.18 | 488 | 328 | | 2.08 | 81 | 10.9 | 15 |
| 16 | 110 | | 2 810 | 28 700 | 18.0 | 8.48 | 388 S | 208 | 10.0 | 1.80 | 80 S | 9.88 | 16 |
| 17 | 84.8 | | 1 970 | 14 400 | | 4.80 | 242 | 94.1 | | 2.24 | 88 | 12.6 | 17 |
| 18 | 18.0 | 67.5 | 874 S | 5 880 | | 3.78 | 140 | 45.4 | 8.0 | 3.57 | 104 S | 32.1 | 18 |
| 19 | | 38.5 | 538 | 1 790 | 17.0 | 3.35 | 87 S | 25.2 | | 3.78 | 122 | 39.5 | 19 |
| 20 | | 21.8 | 487 | 884 | | 3.14 | 83 | 22.8 | 8.0 | 3.17 | 83 S | 23.7 | 20 |
| 21 | | 16.8 | 412 | 591 | | 3.05 | 84 | 22.1 | | 3.08 | 74 | 19.5 | 21 |
| 22 | 16.0 | 13.5 | 388 S | 419 | 17.0 | 2.83 | 84 S | 19.1 | | 3.03 | 100 | 31.4 | 22 |
| 23 | | 9.89 | 318 | 272 | 20.0 | 2.24 | 84 S | 18.2 | 11.0 | 8.11 | 128 S | 88.8 | 23 |
| 24 | | 8.44 | 270 | 197 | | 1.88 | 93 | 18.1 | | 4.27 | 90 | 33.2 | 24 |
| 25 | | 8.88 | 238 | 144 | | 1.83 | 80 | 11.3 | | 3.38 | 82 | 18.1 | 25 |
| 26 | 14.0 | 18.4 | 818 S | 882 | 20.0 | 1.45 | 73 S | 9.15 | | 2.77 | 41 | 9.81 | 26 |
| 27 | 231 | | 4 260 | 85 000 | | 1.38 | 83 | 7.57 | 7.0 | 2.62 | 39 S | 8.15 | 27 |
| 28 | 108 | | 3 880 | 32 900 | | 1.22 | 81 | 5.38 | | 2.41 | 39 | 8.12 | 28 |
| 29 | 16.0 | 88.8 A | 1 700 S | 8 780 | 20.0 | 1.10 | 40 S | 3.80 | | 2.33 | 31 | 8.24 | 29 |
| 30 | | 40.0 E | 807 | 3 130 | | 1.07 | 38 | 3.33 | 7.0 | 1.98 | 39 S | 4.88 | 30 |
| 31 | | 20.0 E | 887 | 882 | | 1.04 | 32 | 2.88 | | | | | 31 |
| TOTAL | | 1 133.71 | | 197 025.5 | | 137.88 | | 2 890.11 | | 83.724 | | 848.71 | TOTAL |
| MEAN | | 36.8 | | 6 380 | | 4.45 | | 83.8 | | 2.79 | | 28.3 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.82 | 32 | 5.03 | | | | | | | | | 1 |
| 2 | | 1.73 | 40 | 5.98 | | | | | | | | | 2 |
| 3 | | 1.69 | 48 | 7.15 | | | | | | | | | 3 |
| 4 | 7.0 | 1.71 | 57 S | 8.42 | | | | | | | | | 4 |
| 5 | | 1.73 | 56 | 8.37 | | | | | | | | | 5 |
| 6 | | 2.04 | 47 | 8.28 | | | | | | | | | 6 |
| 7 | 8.0 | 2.18 | 37 S | 6.91 | | | | | | | | | 7 |
| 8 | | 2.03 | 33 | 5.78 | | | | | | | | | 8 |
| 9 | | 1.88 | 28 | 4.87 | | | | | | | | | 9 |
| 10 | | 1.73 | 24 | 3.58 | | | | | | | | | 10 |
| 11 | 7.0 | 1.81 | 20 S | 3.78 | | | | | | | | | 11 |
| 12 | | 1.80 | 17 | 2.20 | | | | | | | | | 12 |
| 13 | | 1.48 | 18 | 2.40 | | | | | | | | | 13 |
| 14 | 4.0 | 1.54 | 24 S | 3.18 | | | | | | | | | 14 |
| 15 | | 1.89 | 27 | 3.71 | | | | | | | | | 15 |
| 16 | | 1.87 | 40 | 6.51 | | | | | | | | | 16 |
| 17 | | 1.81 | 42 | 6.53 | | | | | | | | | 17 |
| 18 | 9.0 | 1.88 | 36 S | 5.26 | | | | | | | | | 18 |
| 19 | | 1.81 | 34 | 4.73 | | | | | | | | | 19 |
| 20 | | 1.87 | 33 | 4.48 | | | | | | | | | 20 |
| 21 | 7.0 | 1.83 | 32 S | 4.23 | | | | | | | | | 21 |
| 22 | | 1.81 | 40 | 6.22 | | | | | | | | | 22 |
| 23 | | 1.46 | 52 | 6.51 | | | | | | | | | 23 |
| 24 | 11.0 | 1.83 | 56 S | 7.87 | | | | | | | | | 24 |
| 25 | | 1.68 | 56 | 7.42 | | | | | | | | | 25 |
| 26 | | 1.35 | 53 | 6.18 | | | | | | | | | 26 |
| 27 | | 1.38 | 50 S | 5.86 | | | | | | | | | 27 |
| 28 | | 1.48 | 54 | 6.83 | | | | | | | | | 28 |
| 29 | | 1.38 | 59 | 7.09 | | | | | | | | | 29 |
| 30 | | 1.28 | 64 S | 8.87 | | | | | | | | | 30 |
| 31 | | 1.32 | 86 | 9.83 | | | | | | | | | 31 |
| TOTAL | | 50.58 | | 177.88 | | | | | | | | | TOTAL |
| MEAN | | 1.63 | | 5.74 | | | | | | | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 4 260 ON JUN 27

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 85 000 ON JUN 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 20 45 N
LONG 115 47 30 W
DRAINAGE AREA 840 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07DH003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JUN 20 | 17:30 | 100 | | 12.0 | 3 530 | R | 18 | 33 | 38 | 48 | 65 | 83 | 93 | 97 | 99 | 100 | | BNW |
| JUN 20 | 17:55 | 100 | | 12.0 | 3 530 | K | 18 | 24 | 37 | 58 | 85 | 94 | 93 | 98 | 99 | 100 | | BNW |
| JUN 25 | 18:15 | 91.8 | H | 12.0 | 4 400 | K | 18 | 32 | 33 | 46 | 63 | 85 | 96 | 100 | | | | BNW |
| JUN 25 | 18:50 | 300 | | 11.0 | 3 280 | K | 40 | 62 | 70 | 85 | 96 | 100 | | | | | | BNW |
| JUN 26 | 11:20 | 91.5 | | 11.5 | | 932 | R | 18 | 20 | 30 | 40 | 53 | 88 | 89 | 97 | 99 | 100 | BNW |
| JUN 26 | 12:00 | 91.5 | | 11.5 | | 988 | K | 10 | 14 | 25 | 35 | 48 | 88 | 97 | 98 | 99 | 100 | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

RUNNING CREEK NEAR HINTON - STATION NO. 07AP008

SUSPENDED SEDIMENT FOR 1983

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.037 | 1 | 0 | | 0.177 B | 15 | 0.23 | | 0.182 | 3 | 0.04 | 1 |
| 2 | | 0.037 | 1 | 0 | | 0.193 | 15 | 0.25 | | 0.188 | 3 | 0.04 | 2 |
| 3 | | 0.038 | 1 | 0 | | 0.203 | 13 | 0.23 | 4.0 | 0.182 | 3 S | 0.05 | 3 |
| 4 | | 0.038 | 1 | 0 | | 0.230 | 12 | 0.23 | | 0.174 | 2 | 0.03 | 4 |
| 5 | | 0.040 | 1 | 0 | 1.0 | 0.239 | 10 S | 0.20 | | 0.167 | 1 | 0.01 | 5 |
| 6 | | 0.041 | 1 | 0 | | 0.444 | 39 | 1.50 | 4.5 | 0.158 | 1 S | 0.01 | 6 |
| 7 | | 0.038 | 1 | 0 | 0.8 | 0.463 | 33 S | 1.28 | | 0.151 | 1 | 0.01 | 7 |
| 8 | | 0.038 | 1 | 0 | 1.0 | 0.383 | 15 S | 0.47 | | 0.140 | 2 | 0.02 | 8 |
| 9 | | 0.038 | 1 | 0 | 1.0 | 0.302 | 6 S | 0.16 | | 0.131 | 2 | 0.02 | 9 |
| 10 | | 0.038 | 1 | 0 | | 0.289 | 10 | 0.25 | 5.0 | 0.121 | 2 S | 0.02 | 10 |
| 11 | | 0.033 | 1 | 0 | | 0.288 | 8 | 0.20 | | 0.115 | 2 | 0.02 | 11 |
| 12 | | 0.038 A | 1 | 0 | 1.5 | 0.245 | 8 S | 0.13 | | 0.113 | 2 | 0.02 | 12 |
| 13 | | 0.038 | 1 | 0 | 3.5 | 0.241 | 4 S | 0.08 | | 0.113 | 2 | 0.02 | 13 |
| 14 | | 0.037 | 1 | 0 | 3.5 | 0.338 | 11 S | 0.32 | | 0.110 | 2 | 0.02 | 14 |
| 15 | | 0.038 | 1 | 0 | | 0.305 | 5 | 0.13 | | 0.107 | 2 | 0.02 | 15 |
| 16 | | 0.041 | 1 | 0 | | 0.288 | 4 | 0.10 | 5.0 | 0.110 | 3 S | 0.03 | 16 |
| 17 | | 0.046 | 2 | 0.01 | | 0.272 | 3 | 0.07 | | 0.118 | 3 | 0.02 | 17 |
| 18 | | 0.050 | 3 | 0.02 | | 0.280 | 3 | 0.07 | | 0.124 | 5 | 0.05 | 18 |
| 19 | | 0.057 | 4 | 0.03 | 2.1 | 0.248 | 2 S | 0.04 | | 0.128 | 4 | 0.04 | 19 |
| 20 | | 0.112 | 8 | 0.08 | | 0.230 | 2 | 0.04 | 3.8 | 0.268 | 38 S | 0.80 | 20 |
| 21 | 1.0 | 0.165 | 15 S | 0.18 | | 0.211 | 2 | 0.04 | 4.0 | 0.281 | 15 S | 0.34 | 21 |
| 22 | | 0.158 | 17 | 0.23 | | 0.194 | 2 | 0.03 | | 0.182 | 10 | 0.18 | 22 |
| 23 | | 0.186 | 18 | 0.29 | 4.0 | 0.180 | 2 S | 0.03 | 4.0 | 0.208 | 18 S | 0.32 | 23 |
| 24 | | 0.250 | 18 | 0.40 | | 0.173 | 2 | 0.03 | 4.2 | 0.708 | 120 S | 7.32 | 24 |
| 25 | 1.0 | 0.239 | 18 S | 0.38 | | 0.188 | 3 | 0.04 | 4.8 | 0.508 | 38 S | 1.87 | 25 |
| 26 | | 0.178 | 18 | 0.28 | 5.5 | 0.185 | 3 S | 0.04 | | 0.428 | 28 | 0.88 | 26 |
| 27 | | 0.180 | 18 | 0.28 | 3.0 | 0.158 | 4 S | 0.11 | | 0.518 | 28 | 1.11 | 27 |
| 28 | | 0.188 | 19 | 0.28 | | 0.154 | 5 | 0.07 | | 0.418 | 20 | 0.72 | 28 |
| 29 | | 0.171 | 18 | 0.27 | | 0.148 | 5 | 0.06 | | 0.388 | 17 | 0.57 | 29 |
| 30 | | 0.167 | 18 | 0.23 | | 0.147 | 4 | 0.05 | 5.0 | 0.378 | 18 S | 0.82 | 30 |
| 31 | | | | | | 0.148 | 4 | 0.05 | | | | | 31 |
| TOTAL | | 2.883 | | 2.01 | | 7.462 | | 5.73 | | 5.838 | | 18.00 | TOTAL |
| MEAN | | 0.093 | | 0.10 | | 0.240 | | 0.22 | | 0.225 | | 0.60 | MEAN |

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.385 | 15 | 0.47 | | 0.081 | 3 | 0.02 | | 0.057 | 2 | 0.01 | 1 |
| 2 | | 0.343 | 13 | 0.39 | | 0.077 | 3 | 0.02 | 5.2 | 0.051 | 3 S | 0.01 | 2 |
| 3 | | 0.354 | 14 | 0.43 | | 0.078 | 3 | 0.02 | | 0.057 | 2 | 0.01 | 3 |
| 4 | 5.0 | 0.285 | 10 S | 0.25 | | 0.074 | 3 | 0.02 | | 0.058 | 2 | 0.01 | 4 |
| 5 | | 0.247 | 9 | 0.19 | 4.8 | 0.072 | 3 S | 0.02 | | 0.058 | 2 | 0.01 | 5 |
| 6 | | 0.225 | 8 | 0.15 | | 0.070 | 3 | 0.02 | | 0.055 | 2 | 0.01 | 6 |
| 7 | | 0.207 | 7 | 0.13 | | 0.068 | 3 | 0.02 | | 0.054 | 2 | 0.01 | 7 |
| 8 | | 0.200 | 6 | 0.10 | | 0.071 | 3 | 0.02 | | 0.055 | 2 | 0.01 | 8 |
| 9 | | 0.217 | 7 | 0.13 | | 0.072 | 3 | 0.02 | 0.4 | 0.052 | 3 S | 0.01 | 9 |
| 10 | 5.0 | 0.177 | 5 S | 0.08 | | 0.070 | 3 | 0.02 | | 0.050 | 2 | 0.01 | 10 |
| 11 | | 0.167 | 4 | 0.08 | | 0.071 | 4 | 0.02 | | 0.057 | 1 | 0 | 11 |
| 12 | | 0.184 | 4 | 0.08 | 5.0 | 0.078 | 5 S | 0.03 | | 0.055 | 1 | 0 | 12 |
| 13 | | 0.188 | 4 | 0.08 | | 0.070 | 4 | 0.02 | | 0.055 | 1 | 0 | 13 |
| 14 | | 0.180 | 4 | 0.08 | | 0.068 | 4 | 0.02 | | 0.053 | 1 | 0 | 14 |
| 15 | 4.8 | 0.177 | 5 S | 0.08 | | 0.067 | 3 | 0.02 | | 0.052 | 1 | 0 | 15 |
| 16 | | 0.218 | 6 | 0.11 | | 0.068 | 3 | 0.02 | 2.8 | 0.058 | 1 S | 0 | 16 |
| 17 | | 0.188 | 5 | 0.08 | | 0.063 | 3 | 0.02 | | 0.058 | 1 | 0 | 17 |
| 18 | | 0.186 | 5 | 0.07 | | 0.063 | 3 | 0.02 | | 0.053 | 1 | 0 | 18 |
| 19 | | 0.162 | 4 | 0.06 | | 0.061 | 2 | 0.01 | | 0.053 B | 1 | 0 | 19 |
| 20 | | 0.127 | 4 | 0.04 | 2.2 | 0.060 | 3 S | 0.01 | | 0.048 | 1 | 0 | 20 |
| 21 | 7.8 | 0.118 | 4 S | 0.04 | | 0.058 | 2 | 0.01 | | 0.048 | 1 | 0 | 21 |
| 22 | | 0.110 | 4 | 0.04 | | 0.058 | 2 | 0.01 | 2.2 | 0.048 | 1 S | 0 | 22 |
| 23 | | 0.108 | 4 | 0.04 | | 0.057 | 2 | 0.01 | | 0.048 | 1 | 0 | 23 |
| 24 | | 0.105 | 3 | 0.03 | | 0.057 | 3 | 0.01 | | 0.048 | 1 | 0 | 24 |
| 25 | 5.2 | 0.103 | 3 S | 0.03 | 5.0 | 0.058 | 5 S | 0.02 | | 0.046 | 1 | 0 | 25 |
| 26 | | 0.118 | 5 | 0.05 | | 0.057 | 5 | 0.02 | | 0.043 | 1 | 0 | 26 |
| 27 | | 0.101 | 4 | 0.03 | | 0.058 | 4 | 0.02 | | 0.047 | 1 | 0 | 27 |
| 28 | | 0.088 | 4 | 0.03 | | 0.058 | 4 | 0.02 | | 0.048 | 1 | 0 | 28 |
| 29 | | 0.092 | 4 | 0.03 | | 0.058 | 3 | 0.01 | | 0.058 B | 4 | 0.02 | 29 |
| 30 | | 0.088 | 3 | 0.02 | | 0.058 | 3 | 0.01 | 0.1 | 0.048 B | 5 S | 0.02 | 30 |
| 31 | | 0.085 | 3 | 0.02 | | 0.058 | 3 | 0.01 | | | | | 31 |
| TOTAL | | 5.404 | | 3.36 | | 2.024 | | 0.55 | | 1.575 | | 0.14 | TOTAL |
| MEAN | | 0.174 | | 0.11 | | 0.065 | | 0.02 | | 0.052 | | 0 | MEAN |

ALBERTA

SUNICE CREEK NEAR HINTON - STATION NO. 07AF005

SUSPENDED SEDIMENT FOR 1983

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.050 B | 4 | 0.02 | | 0.054 | 3 | 0.01 | | | | |
| 2 | | 0.050 | 4 | 0.02 | | 0.054 | 3 | 0.01 | | | | |
| 3 | | 0.048 | 4 | 0.02 | 0.0 | 0.053 A | 3 S | 0.01 | | | | |
| 4 | | 0.053 | 4 | 0.02 | | | | | | | | |
| 5 | | 0.051 | 3 | 0.01 | | | | | | | | |
| 6 | 1.1 | 0.048 | 3 S | 0.01 | | | | | | | | |
| 7 | | 0.048 B | 4 | 0.02 | | | | | | | | |
| 8 | | 0.048 B | 4 | 0.02 | | | | | | | | |
| 9 | | 0.048 B | 4 | 0.02 | | | | | | | | |
| 10 | | 0.048 B | 4 | 0.02 | | | | | | | | |
| 11 | | 0.048 | 3 | 0.01 | | | | | | | | |
| 12 | | 0.049 | 3 | 0.01 | | | | | | | | |
| 13 | | 0.050 | 3 | 0.01 | | | | | | | | |
| 14 | 2.7 | 0.050 | 3 S | 0.02 | | | | | | | | |
| 15 | | 0.057 | 3 | 0.01 | | | | | | | | |
| 16 | | 0.058 B | 4 | 0.02 | | | | | | | | |
| 17 | | 0.053 | 3 | 0.01 | | | | | | | | |
| 18 | | 0.054 | 3 | 0.01 | | | | | | | | |
| 19 | | 0.054 | 3 | 0.01 | | | | | | | | |
| 20 | | 0.053 | 3 | 0.01 | | | | | | | | |
| 21 | | 0.053 | 3 | 0.01 | | | | | | | | |
| 22 | | 0.054 | 3 | 0.01 | | | | | | | | |
| 23 | | 0.053 B | 4 | 0.02 | | | | | | | | |
| 24 | | 0.053 B | 4 | 0.02 | | | | | | | | |
| 25 | | 0.052 | 3 | 0.01 | | | | | | | | |
| 26 | | 0.054 | 3 | 0.01 | | | | | | | | |
| 27 | 0.1 | 0.055 | 3 S | 0.02 | | | | | | | | |
| 28 | | 0.052 | 3 | 0.02 | | | | | | | | |
| 29 | | 0.054 | 3 | 0.01 | | | | | | | | |
| 30 | | 0.050 | 3 | 0.02 | | | | | | | | |
| 31 | | 0.056 | 3 | 0.01 | | | | | | | | |
| TOTAL | | 1.648 | | 0.46 | | | | | | | | |
| MEAN | | 0.053 | | 0.01 | | | | | | | | |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 130 ON JUN 24

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 7.32 ON JUN 24

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 10 N
LONG 117 13 55 W
DRAINAGE AREA 19.1 $km^2$
NATURAL FLOW

MARMOT CREEK MAIN STEM NEAR BRIDGE - STATION NO. 05BP016

SUSPENDED SEDIMENT FOR 1982

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.017 | | | | 0.014 | | | | 0.013 | | | 1 |
| 2 | | 0.017 | | | | 0.014 | | | | 0.013 | | | 2 |
| 3 | | 0.017 | | | | 0.014 | | | | 0.013 | | | 3 |
| 4 | | 0.017 | | | | 0.013 | | | | 0.013 | | | 4 |
| 5 | | 0.017 | | | | 0.013 | | | | 0.013 | | | 5 |
| 6 | | 0.017 | | | | 0.013 | | | | 0.013 | | | 6 |
| 7 | | 0.017 | | | | 0.013 | | | | 0.013 | | | 7 |
| 8 | | 0.017 | | | | 0.013 | | | | 0.013 | | | 8 |
| 9 | | 0.017 | | | | 0.013 | | | | 0.013 | | | 9 |
| 10 | | 0.018 | | | | 0.013 | | | | 0.012 | | | 10 |
| 11 | | 0.018 | | | | 0.013 | | | | 0.012 | | | 11 |
| 12 | | 0.018 | | | | 0.013 | | | | 0.012 | | | 12 |
| 13 | | 0.018 | | | | 0.013 | | | | 0.012 | | | 13 |
| 14 | | 0.018 | | | | 0.013 | | | | 0.012 | | | 14 |
| 15 | | 0.018 | | | | 0.013 | | | | 0.012 | | | 15 |
| 16 | | 0.018 | | | | 0.014 | | | | 0.012 | | | 16 |
| 17 | | 0.018 | | | | 0.014 | | | | 0.012 | | | 17 |
| 18 | | 0.018 | | | | 0.014 | | | | 0.012 | | | 18 |
| 19 | | 0.018 | | | | 0.014 | | | | 0.012 | | | 19 |
| 20 | | 0.018 | | | | 0.013 | | | | 0.012 | | | 20 |
| 21 | | 0.013 | | | | 0.013 | | | | 0.012 | | | 21 |
| 22 | | 0.014 | | | | 0.013 | | | | 0.013 | | | 22 |
| 23 | | 0.014 | | | | 0.013 | | | | 0.013 | | | 23 |
| 24 | | 0.014 | | | | 0.013 | | | | 0.012 | | | 24 |
| 25 | | 0.014 | | | | 0.013 | | | | 0.012 | | | 25 |
| 26 | | 0.014 | | | | 0.013 | | | | 0.012 | | | 26 |
| 27 | | 0.014 | | | | 0.013 | | | | 0.013 | | | 27 |
| 28 | | 0.014 | | | | 0.013 | | | | 0.012 | | | 28 |
| 29 | | 0.014 | | | | | | | | 0.012 | | | 29 |
| 30 | | 0.014 | | | | | | | | 0.012 | | | 30 |
| 31 | | 0.014 | | | | | | | | 0.012 | | | 31 |
| TOTAL | | 0.480 | | | | 0.371 | | | | 0.377 | | | TOTAL |
| MEAN | | 0.015 | | | | 0.013 | | | | 0.012 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.012 | | | | 0.038 E | | | 3.5 | 0.581 | 2 S | 0.10 | 1 |
| 2 | | 0.012 | | | | 0.038 E | | | | 0.491 | 2 | 0.08 | 2 |
| 3 | | 0.012 | | | | 0.043 E | | | | 0.432 | 2 | 0.07 | 3 |
| 4 | | 0.012 | | | | 0.045 E | | | | 0.395 | 2 | 0.07 | 4 |
| 5 | | 0.012 | | | | 0.045 E | | | | 0.376 | 2 | 0.07 | 5 |
| 6 | | 0.012 | | | | 0.054 A | | | | 0.404 | 2 | 0.07 | 6 |
| 7 | | 0.012 | | | | 0.064 E | | | | 0.444 | 2 | 0.08 | 7 |
| 8 | | 0.012 | | | | 0.065 E | | | | 0.458 | 2 | 0.08 | 8 |
| 9 | | 0.012 | | | | 0.061 E | | | 3.0 | 0.458 | 2 S | 0.08 | 9 |
| 10 | | 0.012 | | | | 0.057 A | | | | 0.448 | 2 | 0.08 | 10 |
| 11 | | 0.012 | | | | 0.068 | | | - | 0.388 | 1 | 0.03 | 11 |
| 12 | | 0.012 | | | | 0.058 | | | | 0.364 | 1 | 0.03 | 12 |
| 13 | | 0.012 | | | | 0.085 | | | | 0.333 | 1 | 0.03 | 13 |
| 14 | | 0.012 | | | | 0.073 | | | | 0.318 | 1 | 0.03 | 14 |
| 15 | | 0.012 | | | | 0.062 | | | | 0.315 | 1 | 0.03 | 15 |
| 16 | | 0.013 | | | | 0.107 | | | 3.5 | 0.311 | 1 S | 0.03 | 16 |
| 17 | | 0.015 | | | | 0.109 | | | | 0.309 | 1 | 0.03 | 17 |
| 18 | | 0.018 A | | | | 0.107 | | | | 0.304 | 1 | 0.03 | 18 |
| 19 | | 0.024 E | | | | 0.102 | | | | 0.272 | 1 | 0.02 | 19 |
| 20 | | 0.027 E | | | | 0.130 | | | | 0.247 | 1 | 0.02 | 20 |
| 21 | | 0.036 E | | | | 0.188 | | | | 0.220 | 1 | 0.02 | 21 |
| 22 | | 0.043 E | | | | 0.217 | | | | 0.228 | 1 | 0.02 | 22 |
| 23 | | 0.048 E | | | | 0.262 | | | 3.5 | 0.267 | 1 S | 0.02 | 23 |
| 24 | | 0.070 E | | | | 0.337 | | | | 0.300 | 1 | 0.02 | 24 |
| 25 | | 0.080 E | | | | 0.382 | | | | 0.318 | 1 | 0.03 | 25 |
| 26 | | 0.041 E | | | | 0.434 | 2 S | 0.07 | | 0.304 | 1 | 0.03 | 26 |
| 27 | | 0.038 E | | | | 0.453 | 2 | 0.08 | | 0.354 | 1 | 0.03 | 27 |
| 28 | | 0.033 E | | | | 0.511 | 2 | 0.09 | 5.5 | 0.374 | 1 S | 0.03 | 28 |
| 29 | | 0.033 E | | | | 0.630 | 2 | 0.11 | | 0.377 | 1 | 0.03 | 29 |
| 30 | | 0.035 E | | | | 0.621 | 2 | 0.11 | 5.0 | 0.357 | 1 S | 0.02 | 30 |
| 31 | | | | | | 0.556 | 2 | 0.10 | | 0.351 | 1 | 0.03 | 31 |
| TOTAL | | 0.710 | | | | 5.884 | | | | 10.328 | | 1.30 | TOTAL |
| MEAN | | 0.024 | | | | 0.190 | | | | 0.344 | | 0.04 | MEAN |

ALBERTA

MARMOT CREEK MAIN STEM NEAR SEEBE - STATION NO. 05BP018

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.348 | 1 | 0.02 | | 0.120 | 1 | 0.01 | | 0.048 | 1 | 0 | 1 |
| 2 | | 0.360 | 1 | 0.02 | | 0.114 | 1 | 0.01 | | 0.048 | 1 | 0 | 2 |
| 3 | | 0.360 | 1 | 0.03 | | 0.108 | 1 | 0.01 | | 0.048 | 1 | 0 | 3 |
| 4 | | 0.384 | 1 | 0.03 | | 0.102 | 1 | 0.01 | | 0.048 | 1 | 0 | 4 |
| 5 | | 0.388 | 1 | 0.03 | 7.5 | 0.098 | 1 E | 0.01 | | 0.048 | 1 | 0 | 5 |
| 6 | | 0.384 | 1 | 0.03 | | 0.091 | 1 | 0.01 | | 0.048 | 1 | 0 | 6 |
| 7 | 5.5 | 0.336 | 1 E | 0.03 | | 0.088 | 1 | 0.01 | | 0.055 | 1 | 0 | 7 |
| 8 | | 0.332 | 1 | 0.03 | | 0.087 | 1 | 0.01 | 5.0 | 0.048 | 1 E | 0 | 8 |
| 9 | | 0.288 | 1 | 0.03 | | 0.088 | 1 | 0.01 | | 0.048 | 1 | 0 | 9 |
| 10 | | 0.273 | 1 | 0.02 | | 0.083 | 1 | 0.01 | | 0.047 | 1 | 0 | 10 |
| 11 | | 0.287 | 1 | 0.02 | 8.0 | 0.084 | 1 E | 0.01 | | 0.048 | 1 | 0 | 11 |
| 12 | 5.0 | 0.383 | 3 E | 0.07 | | 0.081 | 1 | 0.01 | | 0.044 | 1 | 0 | 12 |
| 13 | | 0.237 | 2 | 0.04 | | 0.077 | 1 | 0.01 | | 0.043 | 1 | 0 | 13 |
| 14 | | 0.238 | 2 | 0.04 | | 0.073 | 1 | 0.01 | | 0.042 | 1 | 0 | 14 |
| 15 | | 0.228 | 2 | 0.04 | | 0.071 | 1 | 0.01 | | 0.038 | 1 | 0 | 15 |
| 16 | | 0.228 | 2 | 0.04 | | 0.088 | 1 | 0.01 | | 0.038 | 1 | 0 | 16 |
| 17 | | 0.248 | 2 | 0.04 | | 0.088 | 0 | 0 | | 0.040 | 1 | 0 | 17 |
| 18 | | 0.247 | 2 | 0.04 | | 0.074 | 0 | 0 | | 0.038 | 1 | 0 | 18 |
| 19 | | 0.281 | 2 | 0.05 | 7.0 | 0.088 | 0 E | 0 | | 0.037 | 1 | 0 | 19 |
| 20 | | 0.282 | 2 | 0.05 | | 0.084 | 0 | 0 | 3.5 | 0.037 | 1 E | 0 | 20 |
| 21 | | 0.248 | 2 | 0.04 | | 0.083 | 1 | 0.01 | | 0.038 | 1 | 0 | 21 |
| 22 | 5.0 | 0.336 | 2 E | 0.06 | 7.0 | 0.084 | 1 E | 0.01 | | 0.038 | 1 | 0 | 22 |
| 23 | | 0.312 | 2 | 0.06 | | 0.084 | 1 | 0.01 | | 0.038 | 1 | 0 | 23 |
| 24 | | 0.188 | 2 | 0.03 | | 0.084 | 1 | 0.01 | | 0.038 | 1 | 0 | 24 |
| 25 | | 0.184 | 1 | 0.02 | | 0.083 | 1 | 0.01 | | 0.036 | 1 | 0 | 25 |
| 26 | | 0.179 | 1 | 0.02 | | 0.088 | 1 | 0.01 | 5.0 | 0.033 | 1 E | 0 | 26 |
| 27 | 5.0 | 0.188 | 1 E | 0.01 | | 0.088 | 1 | 0 | | 0.035 | 1 | 0 | 27 |
| 28 | | 0.184 | 1 | 0.01 | | 0.088 | 1 | 0 | | 0.034 | 1 | 0 | 28 |
| 29 | | 0.163 | 1 | 0.01 | | 0.084 | 1 | 0 | | 0.035 | 1 | 0 | 29 |
| 30 | | 0.138 | 1 | 0.01 | | 0.080 | 1 | 0 | 1.0 | 0.035 | 0 E | 0 | 30 |
| 31 | | 0.138 | 1 | 0.01 | | 0.048 | 1 | 0 | | | | | 31 |
| TOTAL | | 7.574 | | 0.84 | | 3.340 | | 0.22 | | 1.238 | | 0 | TOTAL |
| MEAN | | 0.244 | | 0.03 | | 0.078 | | 0.01 | | 0.041 | | 0 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.038 | | | | 0.028 | | | | 0.017 | | | 1 |
| 2 | | 0.038 | | | | 0.024 | | | | 0.017 | | | 2 |
| 3 | | 0.038 | | | | 0.026 | | | | 0.017 | | | 3 |
| 4 | | 0.038 | | | | 0.030 | | | | 0.016 | | | 4 |
| 5 | | 0.034 | | | | 0.028 | | | | 0.015 E | | | 5 |
| 6 | | 0.034 | | | | 0.025 | | | | 0.015 E | | | 6 |
| 7 | | 0.033 | | | | 0.024 | | | | 0.015 E | | | 7 |
| 8 | | 0.032 | | | | 0.022 | | | | 0.015 E | | | 8 |
| 9 | | 0.032 | | | | 0.022 | | | | 0.015 E | | | 9 |
| 10 | | 0.031 | | | | 0.021 | | | | 0.015 E | | | 10 |
| 11 | | 0.031 | | | | 0.023 | | | | 0.015 E | | | 11 |
| 12 | | 0.031 | | | | 0.022 | | | | 0.015 E | | | 12 |
| 13 | | 0.031 | | | | 0.021 | | | | 0.017 E | | | 13 |
| 14 | | 0.031 | | | | 0.021 | | | | 0.017 A | | | 14 |
| 15 | | 0.031 | | | | 0.021 | | | | 0.017 | | | 15 |
| 16 | | 0.031 | | | | 0.021 | | | | 0.017 | | | 16 |
| 17 | | 0.030 | | | | 0.021 | | | | 0.015 E | | | 17 |
| 18 | | 0.030 | | | | 0.021 | | | | 0.014 E | | | 18 |
| 19 | | 0.030 | | | | 0.021 | | | | 0.014 E | | | 19 |
| 20 | | 0.030 | | | | 0.020 | | | | 0.012 E | | | 20 |
| 21 | | 0.028 | | | | 0.020 | | | | 0.012 E | | | 21 |
| 22 | | 0.028 | | | | 0.018 | | | | 0.011 E | | | 22 |
| 23 | | 0.026 | | | | 0.018 | | | | 0.011 E | | | 23 |
| 24 | | 0.028 | | | | 0.018 | | | | 0.010 E | | | 24 |
| 25 | | 0.028 | | | | 0.018 | | | | 0.010 E | | | 25 |
| 26 | | 0.028 | | | | 0.018 | | | | 0.011 E | | | 26 |
| 27 | | 0.027 | | | | 0.018 | | | | 0.011 E | | | 27 |
| 28 | | 0.026 | | | | 0.018 | | | | 0.011 E | | | 28 |
| 29 | | 0.026 | | | | 0.018 | | | | 0.011 E | | | 29 |
| 30 | | 0.026 | | | | 0.018 | | | | 0.011 E | | | 30 |
| 31 | | 0.026 | | | | | | | | 0.012 E | | | 31 |
| TOTAL | | 0.934 | | | | 0.562 | | | | 0.428 | | | TOTAL |
| MEAN | | 0.030 | | | | 0.021 | | | | 0.014 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

SUSPENDED SEDIMENT LOAD(t/d)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 01 N
LONG 115 09 08 W
DRAINAGE AREA 9.40 $km^2$
NATURAL FLOW

MINIMUM DAILY 0.00 AUG 17

MINIMUM DAILY 0 ON AUG 17

A - ANNUAL MAXIMA

E - ESTIMATED B - SAMPLE(S) COLLECTED THIS DAY

MIDDLE FORK CREEK NEAR BEZOS - STATION NO. 05BF017

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.005 | | | | 0.005 | | | | 0.004 | | | 1 |
| 2 | | 0.005 | | | | 0.005 | | | | 0.004 | | | 2 |
| 3 | | 0.005 | | | | 0.005 | | | | 0.004 | | | 3 |
| 4 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 4 |
| 5 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 5 |
| 6 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 6 |
| 7 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 7 |
| 8 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 8 |
| 9 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 9 |
| 10 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 10 |
| 11 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 11 |
| 12 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 12 |
| 13 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 13 |
| 14 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 14 |
| 15 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 15 |
| 16 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 16 |
| 17 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 17 |
| 18 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 18 |
| 19 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 19 |
| 20 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 20 |
| 21 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 21 |
| 22 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 22 |
| 23 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 23 |
| 24 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 24 |
| 25 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 25 |
| 26 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 26 |
| 27 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 27 |
| 28 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 28 |
| 29 | | 0.005 | | | | | | | | 0.004 | | | 29 |
| 30 | | 0.005 | | | | | | | | 0.004 | | | 30 |
| 31 | | 0.005 | | | | | | | | 0.004 | | | 31 |
| TOTAL | | 0.153 | | | | 0.115 | | | | 0.120 | | | TOTAL |
| MEAN | | 0.005 | | | | 0.004 | | | | 0.004 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.004 | | | | 0.014 | | | 3.0 | 0.217 | 4.5 | 0.07 | 1 |
| 2 | | 0.004 | | | | 0.018 | | | | 0.183 | 3 | 0.05 | 2 |
| 3 | | 0.004 | | | | 0.030 | | | | 0.178 | 3 | 0.05 | 3 |
| 4 | | 0.004 | | | | 0.030 | | | | 0.170 | 2 | 0.03 | 4 |
| 5 | | 0.004 | | | | 0.019 | | | | 0.181 | 2 | 0.03 | 5 |
| 6 | | 0.004 | | | | 0.019 | | | | 0.187 | 2 | 0.03 | 6 |
| 7 | | 0.004 | | | | 0.028 | | | | 0.178 | 2 | 0.03 | 7 |
| 8 | | 0.004 | | | | 0.027 | | | 5.0 | 0.185 | 3.5 | 0.05 | 8 |
| 9 | | 0.004 | | | | 0.026 | | | | 0.185 | 3 | 0.05 | 9 |
| 10 | | 0.004 | | | | 0.020 | | | | 0.180 | 3 | 0.05 | 10 |
| 11 | | 0.004 | | | | 0.020 | | | | 0.188 | 2 | 0.03 | 11 |
| 12 | | 0.004 | | | | 0.021 | | | | 0.180 | 2 | 0.03 | 12 |
| 13 | | 0.004 | | | | 0.025 | | | | 0.133 | 2 | 0.02 | 13 |
| 14 | | 0.004 | | | | 0.027 | | | | 0.120 | 1 | 0.01 | 14 |
| 15 | | 0.004 | | | | 0.037 | | | 5.5 | 0.120 | 1.5 | 0.01 | 15 |
| 16 | | 0.005 | | | | 0.050 | | | | 0.121 | 1 | 0.01 | 16 |
| 17 | | 0.006 | | | | 0.050 | | | | 0.116 | 1 | 0.01 | 17 |
| 18 | | 0.010 | | | | 0.048 | | | | 0.113 | 1 | 0.01 | 18 |
| 19 | | 0.012 | | | | 0.048 | | | | 0.104 | 1 | 0.01 | 19 |
| 20 | | 0.014 | | | 1.5 | 0.050 | 1.5 | 0.01 | | 0.094 | 1 | 0.01 | 20 |
| 21 | | 0.018 | | | | 0.078 | 1 | 0.01 | | 0.085 | 1 | 0.01 | 21 |
| 22 | | 0.022 | | | | 0.111 | 1 | 0.01 | | 0.083 | 1 | 0.01 | 22 |
| 23 | | 0.023 | | | | 0.148 | 2 | 0.03 | 5.5 | 0.088 | 1.5 | 0.01 | 23 |
| 24 | | 0.031 | | | | 0.177 | 3 | 0.05 | | 0.114 | 2 | 0.02 | 24 |
| 25 | | 0.018 | | | | 0.181 | 4 | 0.07 | | 0.127 | 2 | 0.03 | 25 |
| 26 | | 0.015 | | | 3.5 | 0.211 | 4.5 | 0.07 | | 0.127 | 2 | 0.03 | 26 |
| 27 | | 0.013 | | | | 0.212 | 4 | 0.07 | 5.0 | 0.121 | 2.5 | 0.03 | 27 |
| 28 | | 0.012 | | | | 0.221 | 4 | 0.08 | | 0.111 | 2 | 0.02 | 28 |
| 29 | | 0.012 | | | | 0.247 | 4 | 0.08 | 5.0 | 0.108 | 2.5 | 0.03 | 29 |
| 30 | | 0.015 | | | | 0.234 | 4 | 0.08 | | 0.107 | 2 | 0.03 | 30 |
| 31 | | | | | | 0.232 | 4 | 0.08 | | | | | 31 |
| TOTAL | | 0.287 | | | | 2.844 | | | | 4.135 | | 0.76 | TOTAL |
| MEAN | | 0.009 | | | | 0.088 | | | | 0.137 | | 0.03 | MEAN |

MIDDLE FORK CREEK NEAR SEEBE - STATION NO. 05BF017

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.102 | 2 | 0.02 | | 0.042 | 1 | 0 | | 0.018 | 1 | 0 | 1 |
| 2 | | 0.098 | 1 | 0.01 | | 0.039 | 1 | 0 | | 0.018 | 1 | 0 | 2 |
| 3 | | 0.124 | 2 | 0.02 | | 0.037 | 1 | 0 | | 0.017 | 1 | 0 | 3 |
| 4 | | 0.133 | 2 | 0.02 | | 0.036 | 1 | 0 | | 0.017 | 1 | 0 | 4 |
| 5 | | 0.123 | 2 | 0.03 | 7.5 | 0.034 | 1 S | 0 | | 0.017 | 1 | 0 | 5 |
| 6 | | 0.140 | 3 | 0.04 | | 0.033 | 1 | 0 | | | | | |
| 7 | 8.5 | 0.136 | 3 S | 0.04 | | 0.031 | 1 | 0 | 8.0 | 0.018 | 1 S | 0 | 7 |
| 8 | | 0.130 E | 3 | 0.03 | | 0.030 | 1 | 0 | | 0.017 | 1 | 0 | 8 |
| 9 | | 0.120 E | 3 | 0.03 | | 0.028 | 1 | 0 | | 0.017 | 1 | 0 | 9 |
| 10 | | 0.110 E | 3 | 0.03 | | 0.026 | 1 | 0 | | 0.017 | 1 | 0 | 10 |
| 11 | | 0.105 E | 2 | 0.02 | 8.5 | 0.026 | 1 S | 0 | | 0.018 | 1 | 0 | 11 |
| 12 | | 0.099 E | 2 | 0.02 | | 0.025 | 1 | 0 | | 0.018 | 1 | 0 | 12 |
| 13 | 9.5 | 0.094 | 2 S | 0.02 | | 0.023 | 1 | 0 | | 0.018 | 1 | 0 | 13 |
| 14 | | 0.088 | 2 | 0.02 | | 0.022 | 1 | 0 | | 0.018 | 1 | 0 | 14 |
| 15 | | 0.088 | 2 | 0.02 | | 0.022 | 1 | 0 | 8.0 | 0.016 | 1 S | 0 | 15 |
| 16 | | 0.092 | 2 | 0.02 | | 0.022 | 1 | 0 | | 0.016 | 1 | 0 | 16 |
| 17 | | 0.094 | 2 | 0.02 | | 0.022 | 1 | 0 | | 0.016 | 1 | 0 | 17 |
| 18 | | 0.092 | 2 | 0.02 | | 0.026 | 1 | 0 | | 0.016 | 1 | 0 | 18 |
| 19 | | 0.086 | 2 | 0.02 | 8.5 | 0.033 | 1 S | 0 | | 0.016 | 1 | 0 | 19 |
| 20 | | 0.088 | 2 | 0.02 | | 0.030 | 1 | 0 | | 0.016 | 1 | 0 | 20 |
| 21 | | 0.088 | 2 | 0.02 | | 0.030 | 1 | 0 | | 0.016 | 1 | 0 | 21 |
| 22 | 8.5 | 0.088 | 1 S | 0.01 | 7.0 | 0.030 | 1 S | 0 | | 0.016 | 1 | 0 | 22 |
| 23 | | 0.080 | 1 | 0.01 | | 0.031 | 1 | 0 | | 0.013 | 1 | 0 | 23 |
| 24 | | 0.074 | 1 | 0.01 | | 0.031 | 1 | 0 | | 0.013 | 1 | 0 | 24 |
| 25 | | 0.072 | 1 | 0.01 | | 0.030 | 1 | 0 | | 0.013 | 1 | 0 | 25 |
| 26 | | 0.084 | 1 | 0.01 | | 0.018 | 1 | 0 | | 0.012 | 1 | 0 | 26 |
| 27 | 8.0 | 0.088 | 1 S | 0.01 | | 0.017 | 1 | 0 | | 0.014 | 1 | 0 | 27 |
| 28 | | 0.084 | 1 | 0 | | 0.018 | 1 | 0 | | 0.014 | 1 | 0 | 28 |
| 29 | | 0.081 | 1 | 0 | | 0.018 | 1 | 0 | | 0.014 | 1 | 0 | 29 |
| 30 | | 0.067 | 1 | 0 | | 0.018 | 1 | 0 | 1.5 | 0.014 | 1 S | 0 | 30 |
| 31 | | 0.064 | 1 | 0 | | 0.018 | 1 | 0 | | | | | 31 |
| TOTAL | | 2.912 | | 0.85 | | 0.778 | | 0 | | 0.485 | | 0 | TOTAL |
| MEAN | | 0.094 | | 0.03 | | 0.025 | | 0 | | 0.016 | | 0 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.018 | | | | 0.009 | | | | 0.007 | | | 1 |
| 2 | | 0.015 | | | | 0.009 | | | | 0.007 | | | 2 |
| 3 | | 0.014 | | | | 0.009 | | | | 0.006 | | | 3 |
| 4 | | 0.014 | | | | 0.010 | | | | 0.006 | | | 4 |
| 5 | | 0.013 | | | | 0.009 | | | | 0.006 | | | 5 |
| 6 | | 0.013 | | | | 0.009 | | | | 0.006 | | | 6 |
| 7 | | 0.013 | | | | 0.008 | | | | 0.005 | | | 7 |
| 8 | | 0.012 | | | | 0.008 | | | | 0.005 | | | 8 |
| 9 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 9 |
| 10 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 10 |
| 11 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 11 |
| 12 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 12 |
| 13 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 13 |
| 14 | | 0.012 | | | | 0.007 | | | | 0.005 | | | 14 |
| 15 | | 0.012 | | | | 0.007 | | | | 0.005 | | | 15 |
| 16 | | 0.011 | | | | 0.007 | | | | 0.005 | | | 16 |
| 17 | | 0.011 | | | | 0.007 | | | | 0.005 | | | 17 |
| 18 | | 0.011 | | | | 0.007 | | | | 0.004 | | | 18 |
| 19 | | 0.011 | | | | 0.007 | | | | 0.004 | | | 19 |
| 20 | | 0.011 | | | | 0.006 | | | | 0.004 | | | 20 |
| 21 | | 0.011 | | | | 0.007 | | | | 0.004 | | | 21 |
| 22 | | 0.011 | | | | 0.007 | | | | 0.004 | | | 22 |
| 23 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 23 |
| 24 | | 0.009 | | | | 0.007 | | | | 0.004 | | | 24 |
| 25 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 25 |
| 26 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 26 |
| 27 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 27 |
| 28 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 28 |
| 29 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 29 |
| 30 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 30 |
| 31 | | 0.009 | | | | | | | | 0.004 | | | 31 |
| TOTAL | | 0.383 | | | | 0.231 | | | | 0.152 | | | TOTAL |
| MEAN | | 0.011 | | | | 0.008 | | | | 0.005 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 30 N
LONG 115 10 15 W
DRAINAGE AREA 2.00 $km^2$
NATURAL FLOW

E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.00 E | | | | 8.80 E | | | 0.1 | 8.61 | 9 E | 3.88 | 1 |
| 2 | | 8.10 E | | | | 8.80 E | | | | 7.82 | 9 | 3.38 | 2 |
| 3 | | 8.15 E | | | | 8.80 E | | | | 7.38 | 9 | 3.19 | 3 |
| 4 | | 8.10 E | | | | 8.70 E | | | | 8.37 | 9 | 3.62 | 4 |
| 5 | | 7.98 E | | | | 8.80 E | | | | 7.38 | 9 | 3.83 | 5 |
| 6 | | 7.95 E | | | | 8.80 E | | | | 7.00 | 9 | 3.03 | 6 |
| 7 | | 8.00 E | | | | 8.80 E | | | | 7.74 | 9 | 3.34 | 7 |
| 8 | | 7.95 E | | | | 8.70 E | | | | 7.40 | 9 | 3.20 | 8 |
| 9 | | 7.80 E | | | | 7.10 E | | | | 8.31 | 10 | 7.18 | 9 |
| 10 | | 7.25 E | | | | 7.40 E | | | | 18.4 | 41 | 84.9 | 10 |
| 11 | | 7.30 E | | | | 7.75 E | | | | 19.2 | 52 | 88.3 | 11 |
| 12 | | 7.80 E | | | | 8.15 E | | | | 18.9 | 46 | 88.8 | 12 |
| 13 | | 7.80 E | | | | 8.85 E | | | | 13.7 | 43 | 60.9 | 13 |
| 14 | | 7.85 E | | | | 9.13 E | | | | 12.4 | 38 E | 40.7 | 14 |
| 15 | | 7.80 E | | | | 9.80 E | | | 1.0 | 11.1 | 37 | 35.5 | 15 |
| 16 | | 7.95 E | | | | 10.2 E | | | | 10.6 | 37 | 33.9 | 16 |
| 17 | | 7.95 E | | | | 10.6 E | | | | 10.0 | 37 | 32.0 | 17 |
| 18 | | 7.90 E | | | | 11.4 E | | | | 8.82 | 38 | 27.7 | 18 |
| 19 | | 7.95 E | | | | 11.8 E | | | | 8.21 | 38 | 26.5 | 19 |
| 20 | | 7.30 E | | | | 13.1 E | | | | 7.73 | 36 | 24.0 | 20 |
| 21 | | 6.60 E | | | | 13.2 E | | | | 8.03 | 38 | 26.9 | 21 |
| 22 | | 5.30 E | | | | 13.2 E | | | | 8.18 | 38 | 26.7 | 22 |
| 23 | | 4.00 E | | | | 13.1 E | | | | 7.81 | 38 | 23.9 | 23 |
| 24 | | 3.40 E | | | | 11.9 E | | | | 7.88 | 38 | 23.7 | 24 |
| 25 | | 3.00 E | | | | 11.4 | | | | 7.81 | 34 | 22.4 | 25 |
| 26 | | 3.04 E | | | | 10.8 | | | | 7.38 | 34 | 21.6 | 26 |
| 27 | | 3.20 E | | | | 9.73 | | | | 7.48 | 33 | 22.4 | 27 |
| 28 | | 4.20 E | | | | 9.18 | | | | 7.88 | 33 | 21.8 | 28 |
| 29 | | 6.15 E | | | | | | | | 7.81 | 33 | 23.9 | 29 |
| 30 | | 6.60 E | | | | | | | | 8.48 | 33 | 25.7 | 30 |
| 31 | | 6.75 E | | | | | | | | 8.28 | | | 31 |
| TOTAL | | 208.39 | | | | 255.81 | | | | 291.83 | | 770.85 | TOTAL |
| MEAN | | 6.65 | | | | 9.13 | | | | 9.41 | | 24.9 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.37 | 33 | 35.8 | | 39.4 | 16 | 54.5 | 5.0 | 127 | 46 E | 527 | 1 |
| 2 | | 8.84 | 33 | 34.6 | | 35.9 | 12 | 38.3 | 10.0 | 116 | 38 E | 381 | 2 |
| 3 | | 8.41 | 33 | 36.0 | | 39.5 | 15 | 51.3 | | 110 | 32 | 304 | 3 |
| 4 | | 8.03 | 33 | 34.7 | | 44.5 | 19 E | 73.1 | | 111 | 30 | 288 | 4 |
| 5 | | 8.13 | 33 | 32.5 | | 48.0 | 25 | 104 | | 107 | 28 | 259 | 5 |
| 6 | | 8.38 | 33 | 33.1 | | 52.3 | 30 | 138 | | 108 | 25 | 238 | 6 |
| 7 | | 9.46 | 33 | 38.2 | | 60.4 | 35 | 183 | | 107 | 23 | 213 | 7 |
| 8 | | 11.5 | 37 | 36.6 | | 85.7 | 40 | 227 | 15.0 | 108 | 21 E | 193 | 8 |
| 9 | | 11.5 | 37 | 35.6 | | 83.6 | 36 | 206 | | 105 | 19 | 172 | 9 |
| 10 | | 10.0 | 36 | 30.2 | | 97.8 | 36 | 178 | | 105 | 18 | 163 | 10 |
| 11 | | 9.35 | 35 | 28.3 | | 93.7 | 32 | 148 | | 100 | 17 | 147 | 11 |
| 12 | | 8.75 | 35 | 26.5 | | 80.8 | 28 | 127 | | 91.1 | 16 | 126 | 12 |
| 13 | | 8.60 | 35 | 26.0 | | 69.7 | 25 | 107 | | 81.8 | 16 | 108 | 13 |
| 14 | | 8.35 | 34 | 24.2 | | 80.8 | 30 | 67.4 | | 73.5 | 14 | 88.9 | 14 |
| 15 | | 8.80 | 34 | 25.3 | | 84.0 | 15 | 70.0 | | 70.3 | 13 | 79.6 | 15 |
| 16 | | 9.06 | 34 | 26.6 | | 86.1 | 12 | 86.2 | | 88.5 | 13 | 72.2 | 16 |
| 17 | | 10.0 | 34 | 29.4 | 7.0 | 89.4 | 13 E | 86.7 | | 86.3 | 11 | 82.9 | 17 |
| 18 | | 11.6 | 35 | 35.7 | | 87.3 | 15 | 93.0 | | 89.3 | 10 | 87.3 | 18 |
| 19 | | 15.5 | 35 | 46.9 | | 70.5 | 15 | 110 | | 83.1 | 9 | 49.1 | 19 |
| 20 | | 15.5 | 36 | 60.7 | | 88.1 | 15 | 108 | | 84.5 | 6 | 39.1 | 20 |
| 21 | | 25.3 | 39 | 68.3 | | 81.8 | 33 | 233 | | 80.8 | 6 | 38.3 | 21 |
| 22 | | 36.7 | 42 | 133 | | 101 | 81 | 707 | 11.0 | 47.0 | 8 E | 30.3 | 22 |
| 23 | | 44.6 | 46 | 177 | | 114 | 136 | 1 330 | | 44.6 | 8 | 23.1 | 23 |
| 24 | | 57.9 | 50 | 247 | 10.0 | 131 | 188 E | 2 140 | | 48.3 | 7 | 28.0 | 24 |
| 25 | | 69.0 | 52 | 400 | | 147 | 237 | 3 010 | | 45.5 | 7 | 26.3 | 25 |
| 26 | | 58.7 | 48 | 277 | | 170 | 271 | 3 980 | | 44.5 | 6 | 31.0 | 26 |
| 27 | 4.5 | 57.6 | 33 E | 184 | 10.0 | 170 | 241 E | 3 540 | | 43.4 | 6 | 28.3 | 27 |
| 28 | | 46.5 | 27 | 113 | | 157 | 202 | 2 760 | 17.0 | 43.5 | 9 E | 33.0 | 28 |
| 29 | | 42.6 | 23 | 84.7 | | 158 | 152 | 2 180 | | 42.2 | 11 | 40.3 | 29 |
| 30 | | 41.1 | 19 | 67.6 | | 161 | 123 | 1 710 | | 45.6 | 12 | 47.6 | 30 |
| 31 | | | | | | 147 | 84 | 1 070 | | | | | 31 |
| TOTAL | | 719.16 | | 3 384.8 | | 3 822.3 | | 34 685.4 | | 2 391.8 | | 3 832.3 | TOTAL |
| MEAN | | 23.8 | | 78.5 | | 84.8 | | 882 | | 79.4 | | 128 | MEAN |

ALBERTA

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 43.8 | 11 | 41.7 | | 23.7 | 8 | 16.4 | | 9.06 | 8 | 4.70 | |
| 2 | | 40.6 | 11 | 38.6 | 20.0 | 22.6 | 8 S | 15.8 | | 8.78 | 8 | 4.54 | |
| 3 | | 39.6 | 11 | 37.6 | | 21.7 | 8 | 15.0 | | 8.82 | 8 | 3.81 | |
| 4 | | 41.6 | 11 | 38.6 | | 20.8 | 8 | 14.4 | | 8.82 | 8 | 3.85 | |
| 5 | 18.0 | 39.3 | 10 S | 34.0 | | 20.6 | 7 | 12.1 | | 8.97 | 8 | 3.86 | |
| 6 | | 38.5 | 10 | 33.3 | 20.0 | 18.7 | 7 S | 11.3 | | 8.87 | 8 | 3.83 | |
| 7 | | 40.6 | 10 | 35.1 | | 17.8 | 7 | 10.8 | | 8.80 | 8 | 2.87 | |
| 8 | | 47.7 | 18 | 76.3 | | 17.7 | 7 | 10.7 | 14.0 | 8.41 | 8 S | 2.81 | |
| 9 | | 51.4 | 21 | 93.3 | | 18.3 | 7 | 11.1 | | 8.82 | 8 | 2.88 | |
| 10 | | 43.3 | 18 | 86.8 | | 17.2 | 8 | 8.92 | | 8.49 | 8 | 2.83 | |
| 11 | | 38.8 | 12 | 40.3 | | 17.0 | 8 | 8.81 | | 8.53 | 8 | 2.86 | |
| 12 | | 38.2 | 10 | 31.3 | 17.0 | 17.3 | 8 S | 8.87 | | 8.83 | 8 | 2.98 | |
| 13 | 18.0 | 38.4 | 8 S | 27.5 | | 18.4 | 8 | 8.50 | | 8.43 | 8 | 2.91 | |
| 14 | | 48.0 | 27 | 107 | | 15.0 | 8 | 7.78 | | 8.30 | 3 | 2.15 | |
| 15 | | 55.3 | 39 | 188 | | 14.0 | 8 | 8.05 | | 8.18 | 3 | 2.12 | |
| 16 | | 53.8 | 36 | 183 | | 13.5 | 8 | 8.83 | | 7.94 | 3 | 2.06 | |
| 17 | | 52.1 | 33 | 148 | | 12.8 | 8 | 8.87 | | 8.23 | 3 | 2.13 | |
| 18 | 18.0 | 51.7 | 29 S | 130 | | 12.8 | 8 | 8.44 | | 8.14 | 3 | 1.86 | |
| 19 | | 48.3 | 27 | 113 | | 13.0 | 8 | 8.82 | | 8.10 | 3 | 1.87 | |
| 20 | | 45.8 | 24 | 97.0 | | 12.8 | 8 | 8.42 | 8.0 | 8.87 | 3 S | 1.80 | |
| 21 | | 44.4 | 22 | 84.4 | | 12.0 | 8 | 8.15 | | 8.28 | 3 | 1.63 | |
| 22 | | 40.8 | 20 | 70.0 | 17.5 | 11.2 | 7 S | 8.77 | | 8.26 | 3 | 1.63 | |
| 23 | | 37.8 | 18 | 58.3 | | 11.3 | 10 | 9.78 | | 8.08 | 3 | 2.05 | |
| 24 | | 36.4 | 18 | 60.3 | | 12.1 | 9 | 8.41 | | 8.02 | 3 | 2.08 | |
| 25 | | 35.8 | 14 | 43.1 | | 11.4 | 9 | 8.86 | | 7.86 | 3 | 2.04 | |
| 26 | | 35.4 | 12 | 38.7 | | 10.9 | 8 | 7.83 | 14.0 | 7.87 | 3 S | 1.98 | |
| 27 | | 32.1 | 10 | 27.7 | | 10.8 | 8 | 7.33 | | 7.83 | 3 | 2.06 | |
| 28 | 14.0 | 30.0 | 8 S | 20.7 | | 10.3 | 8 | 7.12 | | 8.23 | 3 | 2.38 | |
| 29 | 18.0 | 28.3 | 8 S | 19.6 | | 10.2 | 7 | 8.17 | | 8.26 | 3 | 2.40 | |
| 30 | | 26.7 | 8 | 18.5 | | 9.86 | 7 | 8.86 | | 8.85 | 3 | 2.28 | |
| 31 | | 25.2 | 8 | 17.4 | | 9.37 | 7 | 8.87 | | | | | |
| TOTAL | | 1 262.3 | | 1 882.6 | | 482.46 | | 272.08 | | 258.07 | | 78.85 | TOTA |
| MEAN | | 40.7 | | 84.0 | | 14.9 | | 8.78 | | 8.54 | | 2.82 | MEA |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.87 | 3 | 2.38 | | 8.84 | | | | 2.90 S | | | 1 |
| 2 | | 8.61 | 3 | 2.18 | | 7.16 | | | | 2.28 S | | | 2 |
| 3 | | 8.38 | 3 | 2.17 | | 7.32 | | | | 2.40 S | | | 3 |
| 4 | | 8.10 | 3 | 2.10 | | 8.15 | | | | 2.70 S | | | 4 |
| 5 | | 8.18 | 3 | 2.12 | | 17.4 | | | | 3.00 S | | | 5 |
| 6 | | 8.20 | 3 | 2.13 | | 14.8 | | | | 3.40 S | | | 6 |
| 7 | | 8.11 | 3 | 2.10 | | 14.8 | | | | 4.00 S | | | 7 |
| 8 | | 8.04 | 3 | 2.08 | | 12.5 | | | | 4.50 S | | | 8 |
| 9 | | 7.78 | 3 | 2.02 | | 10.8 | | | | 5.20 S | | | 9 |
| 10 | | 7.78 | 3 | 2.02 | | 10.6 | | | | 5.70 S | | | 10 |
| 11 | | 7.80 | 3 | 2.02 | | 11.0 | | | | 6.20 S | | | 11 |
| 12 | | 7.67 | 3 | 1.99 | | 11.7 | | | | 6.40 S | | | 12 |
| 13 | | 7.68 | 3 | 1.98 | | 11.9 | | | | 6.50 S | | | 13 |
| 14 | | 7.37 | 3 | 1.91 | | 11.3 | | | | 6.55 S | | | 14 |
| 15 | | 7.39 | 3 | 1.92 | | 10.9 | | | | 6.60 S | | | 15 |
| 16 | | 7.39 | 3 | 1.92 | | 10.7 | | | | 6.55 S | | | 16 |
| 17 | | 7.28 | 3 | 1.28 | | 10.6 | | | | 6.50 S | | | 17 |
| 18 | | 7.23 | 3 | 1.25 | | 10.5 | | | | 6.45 S | | | 18 |
| 19 | | 7.08 | 3 | 1.22 | | 9.85 | | | | 6.40 S | | | 19 |
| 20 | | 7.07 | 3 | 1.22 | | 9.14 | | | | 6.35 S | | | 20 |
| 21 | | 6.84 | 3 | 1.20 | | 8.58 | | | | 6.30 S | | | 21 |
| 22 | | 6.59 | 3 | 1.15 | | 8.17 | | | | 6.30 S | | | 22 |
| 23 | | 7.07 | 3 | 1.22 | | 8.28 | | | | 6.30 S | | | 23 |
| 24 | | 7.95 | 3 | 1.38 | | 8.63 | | | | 6.30 S | | | 24 |
| 25 | | 7.35 | 3 | 1.25 | | 7.82 | | | | 6.35 S | | | 25 |
| 26 | | 7.07 | 3 | 1.22 | | 8.02 S | | | | 6.35 S | | | 26 |
| 27 | | 6.75 | 3 | 1.17 | | 7.60 S | | | | 6.40 S | | | 27 |
| 28 | | 6.86 | 3 | 1.18 | | 8.50 S | | | | 6.45 S | | | 28 |
| 29 | | 6.82 | 3 | 1.18 | | 4.80 S | | | | 6.50 S | | | 29 |
| 30 | | 6.88 | 3 | 1.19 | | 3.80 S | | | | 6.50 S | | | 30 |
| 31 | 7.0 | 6.85 | 3 S | 1.18 | | | | | | 6.80 S | | | 31 |
| TOTAL | | 232.86 | | 51.24 | | 287.54 | | | | 171.20 | | | TOTAL |
| MEAN | | 7.51 | | 1.85 | | 9.85 | | | | 5.52 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 27 N
LONG 113 49 20 W
DRAINAGE AREA 4 490 $km^2$
NATURAL FLOW

S - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 16.1 B | | | | 12.8 B | | | | 16.0 B | 38 | 80.7 | 1 |
| 2 | | 16.0 B | | | | 13.5 B | | | | 17.5 B | 30 | 45.4 | 2 |
| 3 | | 15.9 B | | | | 13.9 B | | | | 17.4 B | 25 | 37.6 | 3 |
| 4 | | 15.9 B | | | | 14.1 B | | | 0.1 | 17.2 B | 12 S | 17.8 | 4 |
| 5 | | 15.8 B | | | | 14.2 B | | | | 17.4 B | 21 | 31.6 | 5 |
| 6 | | 15.8 B | | | | 14.2 B | | | | 17.8 B | 20 | 30.6 | 6 |
| 7 | | 15.8 B | | | | 14.3 B | | | | 18.0 B | 24 | 37.3 | 7 |
| 8 | | 15.9 B | | | | 14.6 B | | | | 19.3 B | 21 | 35.0 | 8 |
| 9 | | 16.0 B | | | | 15.1 B | | | | 21.0 B | 19 | 34.6 | 9 |
| 10 | | 16.1 B | | | | 15.7 B | | | | 23.4 B | 26 | 52.6 | 10 |
| 11 | | 16.2 B | | | | 16.2 B | | | | 26.5 | 35 | 80.1 | 11 |
| 12 | | 16.3 B | | | | 17.0 B | | | | 35.5 | 45 | 138 | 12 |
| 13 | | 16.4 B | | | | 17.7 B | | | | 40.0 | 41 | 142 | 13 |
| 14 | | 16.5 B | | | | 18.5 B | | | | 34.0 | 35 | 103 | 14 |
| 15 | | 16.6 B | | | | 19.1 B | | | | 30.1 | 28 | 75.4 | 15 |
| 16 | | 16.7 B | | | | 19.7 B | | | 0.1 | 28.7 | 22 S | 54.6 | 16 |
| 17 | | 16.7 B | | | | 20.0 B | | | | 26.5 A | 22 | 50.4 | 17 |
| 18 | | 16.4 B | | | | 20.3 B | | | | 25.5 A | 29 | 63.9 | 18 |
| 19 | | 16.0 B | | | | 20.7 B | | | | 25.4 | 35 | 76.8 | 19 |
| 20 | | 15.2 B | | | | 21.0 B | | | | 23.1 | 29 | 57.9 | 20 |
| 21 | | 14.9 B | | | | 21.3 B | | | | 24.4 | 34 | 71.7 | 21 |
| 22 | | 14.1 B | | | | 21.8 B | | | | 22.3 | 29 | 55.9 | 22 |
| 23 | | 13.4 B | | | | 21.9 B | | | | 20.9 | 28 | 50.8 | 23 |
| 24 | | 12.9 B | | | | 22.0 B | | | | 25.1 | 26 | 56.4 | 24 |
| 25 | | 12.0 B | | | | 22.0 B | | | | 23.3 | 26 | 52.3 | 25 |
| 26 | | 11.4 B | | | | 21.9 B | | | | 22.5 | 24 | 46.7 | 26 |
| 27 | | 11.2 B | | | | 20.7 B | | | | 22.6 | 14 | 47.3 | 27 |
| 28 | | 11.0 B | | | | 19.3 B | | | | 22.2 | 12 | 23.0 | 28 |
| 29 | | 11.0 B | | | | | | | 4.0 | 21.3 | 9 S | 16.6 | 29 |
| 30 | | 11.3 B | | | | | | | | 18.6 | 12 | 20.5 | 30 |
| 31 | | 11.9 B | | | | | | | | 18.7 | 14 | 22.6 | 31 |
| TOTAL | | 457.4 | | | | 503.5 | | | | 726.4 | | 1 589.0 | TOTAL |
| MEAN | | 14.8 | | | | 18.0 | | | | 23.4 | | 53.8 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 17.4 | 19 | 28.5 | | 33.3 | 26 | 74.8 | 16.0 | 215 | 259 S | 4 810 | 1 |
| 2 | 10.0 | 16.6 | 37 S | 60.1 | | 33.1 | 20 | 57.2 | 13.0 | 197 | 193 S | 3 280 | 2 |
| 3 | | 15.6 | 36 | 64.4 | | 30.7 | 18 | 47.7 | 11.0 | 175 | 134 S | 2 030 | 3 |
| 4 | | 15.7 | 23 | 39.1 | 11.0 | 27.7 | 14 S | 33.5 | 11.0 | 148 | 97 S | 1 240 | 4 |
| 5 | | 15.9 | 18 | 30.9 | | 28.3 | 17 | 43.0 | 13.0 | 127 | 73 S | 801 | 5 |
| 6 | | 15.6 | 16 | 27.1 | | 33.6 | 17 | 49.4 | 15.0 | 108 | 61 S | 574 | 6 |
| 7 | 10.0 | 15.2 | 10 S | 15.7 | | 35.4 | 16 | 55.1 | 13.0 | 102 | 51 S | 449 | 7 |
| 8 | | 15.7 | 12 | 17.3 | 14.0 | 40.1 | 22 S | 76.2 | 10.0 | 88.8 | 47 S | 402 | 8 |
| 9 | | 15.5 | 13 | 18.5 | | 48.8 | 26 | 113 | 15.0 | 96.3 | 39 S | 324 | 9 |
| 10 | | 15.9 | 20 | 33.7 | 7.0 | 48.1 | 32 S | 133 | 19.0 | 103 | 37 S | 329 | 10 |
| 11 | | 20.4 | 15 | 26.4 | | 46.3 | 30 | 120 | 15.0 | 97.3 | 24 S | 202 | 11 |
| 12 | 11.0 | 16.8 | 8 S | 9.75 | | 44.8 | 30 | 116 | 17.0 | 91.5 | 20 S | 158 | 12 |
| 13 | | 17.8 | 4 | 5.15 | | 44.8 | 24 | 92.9 | 19.0 | 81.5 | 27 S | 190 | 13 |
| 14 | | 16.8 | 5 | 5.71 | 11.0 | 46.1 | 24 S | 95.6 | 20.0 | 72.8 | 26 S | 183 | 14 |
| 15 | | 15.9 | 5 | 5.87 | | 53.5 | 27 | 125 | 19.0 | 64.4 | 23 S | 128 | 15 |
| 16 | | 14.9 | 7 | 9.01 | 15.0 | 58.2 | 32 S | 161 | 19.0 | 58.5 | 24 S | 123 | 16 |
| 17 | 10.0 | 14.6 | 8 S | 10.1 | | 69.9 | 46 | 233 | 16.0 | 55.0 | 20 S | 95.0 | 17 |
| 18 | | 14.5 | 10 | 12.5 | 11.0 | 61.4 | 51 S | 271 | 15.0 | 50.3 | 19 S | 82.5 | 18 |
| 19 | | 13.8 | 13 | 15.5 | | 66.7 | 59 | 340 | 14.0 | 46.1 | 23 S | 95.6 | 19 |
| 20 | | 11.2 | 11 | 13.8 | 12.0 | 71.6 | 62 S | 384 | 13.0 | 48.2 | 22 S | 87.6 | 20 |
| 21 | | 10.4 | 7 | 8.29 | 12.0 | 78.1 | 77 S | 506 | 12.0 | 41.9 | 20 S | 72.4 | 21 |
| 22 | | 11.3 | 8 | 7.81 | 15.0 | 81.7 | 154 S | 1 220 | 14.0 | 37.1 | 17 S | 54.5 | 22 |
| 23 | | 22.4 | 28 | 54.2 | 15.0 | 111 | 249 S | 2 390 | 21.0 | 33.3 | 13 S | 37.4 | 23 |
| 24 | 15.0 | 25.8 | 19 S | 42.0 | 13.0 | 132 | 382 S | 4 010 | 21.0 | 31.8 | 12 S | 32.8 | 24 |
| 25 | | 40.4 | 85 | 227 | 15.0 | 166 | 533 S | 7 180 | 17.0 | 30.7 | 14 S | 37.1 | 25 |
| 26 | 8.0 | 88.2 | 180 S | 915 | 15.0 | 189 | 770 S | 13 200 | | 30.2 | 13 | 33.9 | 26 |
| 27 | 8.0 | 81.8 | 138 S | 722 | 15.0 | 239 | 830 S | 18 200 | 15.0 | 28.8 | 11 S | 28.3 | 27 |
| 28 | | 51.5 | 83 | 368 | 15.0 | 268 | 973 S | 22 400 | | 28.3 | 10 | 25.3 | 28 |
| 29 | 8.0 | 43.4 | 63 S | 181 | 15.0 | 255 | 748 S | 17 300 | 20.0 | 27.5 | 10 S | 23.8 | 29 |
| 30 | | 37.4 | 30 | 86.9 | 15.0 | 257 | 541 S | 12 000 | | 27.4 | 11 | 26.0 | 30 |
| 31 | | | | | 12.0 | 248 | 421 S | 8 850 | | | | | 31 |
| TOTAL | | 715.1 | | 3 048.19 | | 2 940.0 | | 110 977.4 | | 2 356.4 | | 15 945.5 | TOTAL |
| MEAN | | 23.8 | | 102 | | 94.8 | | 3 580 | | 78.5 | | 532 | MEAN |

ALBERTA

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

SUSPENDED SEDIMENT FOR 1983

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **JUL** | | | | |
| 1 | | 27.7 | 11 | 26.3 |
| 2 | 17.0 | 28.4 | 9 S | 22.5 |
| 3 | | 28.7 | 8 | 19.8 |
| 4 | 12.0 | 27.7 | 10 S | 23.5 |
| 5 | | 27.2 | 11 | 26.5 |
| 6 | 20.0 | 26.2 | 10 S | 22.6 |
| 7 | | 26.4 | 10 | 21.5 |
| 8 | 22.0 | 26.6 | 13 S | 29.6 |
| 9 | | 27.0 | 15 | 37.3 |
| 10 | | 28.1 | 30 | 91.0 |
| 11 | 18.0 | 30.2 | 39 S | 102 |
| 12 | | 25.4 | 38 | 83.6 |
| 13 | 20.0 | 21.8 | 14 S | 26.0 |
| 14 | | 18.3 | 11 | 17.4 |
| 15 | 15.0 | 20.3 | 10 S | 17.5 |
| 16 | | 27.3 | 18 | 51.8 |
| 17 | 17.0 | 28.9 | 21 S | 72.4 |
| 18 | | 28.8 A | 24 | 80.7 |
| 19 | 20.0 | 28.8 A | 27 S | 80.0 |
| 20 | | 40.0 A | 48 | 166 |
| 21 | 17.0 | 28.4 | 51 S | 156 |
| 22 | | 33.0 | 38 | 89.8 |
| 23 | 21.0 | 28.9 A | 21 S | 84.3 |
| 24 | | 28.3 | 15 | 34.1 |
| 25 | 20.0 | 27.8 A | 13 S | 31.0 |
| 26 | 20.0 | 21.8 | 14 S | 26.8 |
| 27 | | 19.6 | 13 | 21.8 |
| 28 | 18.0 | 18.7 | 10 S | 16.2 |
| 29 | | 19.3 | 8 | 12.7 |
| 30 | | 19.1 | 8 | 10.4 |
| 31 | 21.0 | 14.0 | 7 S | 8.47 |
| TOTAL | | 848.8 | | 1 479.77 |
| MEAN | | 27.4 | | 47.7 |
| **AUG** | | | | |
| | | 13.0 | 6 | 6.89 |
| | | 11.7 | 11 | 11.1 |
| | | 10.2 | 15 | 13.2 |
| | 24.0 | 9.35 | 20 S | 18.2 |
| | | 8.74 | 18 | 13.6 |
| | | 8.38 | 17 | 12.3 |
| | | 7.74 | 18 | 10.7 |
| | | 7.71 | 15 | 9.89 |
| | | 8.10 | 13 | 9.10 |
| | | 8.72 | 13 | 9.81 |
| | | 9.50 | 14 | 11.5 |
| | 22.0 | 13.5 | 13 S | 18.2 |
| | | 13.5 | 10 | 11.7 |
| | | 12.0 | 10 | 10.4 |
| | | 9.83 | 12 | 9.08 |
| | | 8.24 | 12 | 8.54 |
| | | 7.38 | 11 | 7.02 |
| | | 7.37 | 9 | 5.73 |
| | 21.0 | 7.66 | 8 S | 5.80 |
| | | 7.36 | 8 | 5.74 |
| | | 7.19 | 8 | 4.97 |
| | | 6.68 | 8 | 4.74 |
| | | 7.82 | 9 S | 6.08 |
| | | 7.37 | 8 | 5.08 |
| | | 7.08 | 8 | 4.88 |
| | | 6.18 | 8 | 4.38 |
| | | 5.36 | 8 | 3.70 |
| | | 5.72 | 8 | 3.85 |
| | | 8.88 | 10 S | 5.06 |
| | 15.0 | 8.84 | 15 S | 6.21 |
| | | 8.70 | 15 | 7.88 |
| | | 280.67 | | 285.80 |
| | | 9.43 | | 9.67 |
| **SEP** | | | | |
| | | 7.19 A | 19 | 11.6 |
| | 22.0 | 7.48 | 19 S | 8.62 |
| | | 7.88 | 7 | 4.84 |
| | | 7.71 | 7 | 4.68 |
| | | 7.88 | 8 | 5.82 |
| | | 8.22 A | 8 | 5.88 |
| | | 8.20 A | 8 | 5.87 |
| | | 8.59 | 8 | 6.86 |
| | | 7.85 | 8 | 4.88 |
| | 11.0 | 7.18 | 8 S | 5.88 |
| | | 8.07 | 13 | 9.05 |
| | | 8.08 | 14 | 8.75 |
| | | 8.50 | 14 | 10.3 |
| | | 8.64 | 15 | 11.5 |
| | 13.0 | 7.88 | 16 S | 11.0 |
| | | 8.16 | 17 | 12.0 |
| | | 8.21 A | 17 | 12.1 |
| | | 8.48 A | 14 | 7.85 |
| | | 8.58 A | 12 | 8.75 |
| | 9.0 | 8.75 A | 11 S | 8.42 |
| | | 8.84 A | 13 | 9.83 |
| | | 9.08 | 15 | 11.7 |
| | | 8.36 | 17 | 12.3 |
| | | 7.88 | 16 | 10.6 |
| | 15.0 | 8.76 | 13 S | 7.88 |
| | | 8.10 | 12 | 8.32 |
| | | 8.81 | 13 | 8.84 |
| | | 8.78 A | 14 | 7.00 |
| | | 8.75 A | 12 | 4.82 |
| | 10.0 | 8.36 | 12 S | 8.04 |
| | | 220.86 | | 238.58 |
| | | 7.37 | | 7.88 |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **OCT** | | | | |
| 1 | | 5.65 | 11 | 5.18 |
| 2 | 8.0 | 5.62 | 11 S | 5.15 |
| 3 | | 5.65 | 13 | 8.13 |
| 4 | | 7.94 | 16 | 11.0 |
| 5 | | 11.8 | 16 | 16.4 |
| 6 | | 13.5 | 17 | 18.8 |
| 7 | | 13.5 | 14 | 16.5 |
| 8 | 8.0 | 13.5 | 11 S | 12.6 |
| 9 | | 14.0 | 12 | 14.5 |
| 10 | | 13.5 | 13 | 15.3 |
| 11 | | 12.9 | 12 | 13.4 |
| 12 | | 12.9 | 12 | 13.4 |
| 13 | | 12.9 | 13 | 14.2 |
| 14 | | 13.4 | 12 | 13.9 |
| 15 | 8.0 | 13.6 | 12 S | 13.1 |
| 16 | | 13.5 | 13 | 15.2 |
| 17 | | 13.5 | 14 | 16.6 |
| 18 | | 14.3 | 14 | 17.3 |
| 19 | | 15.0 | 13 | 16.6 |
| 20 | | 14.6 | 13 | 16.6 |
| 21 | | 14.6 | 13 | 12.4 |
| 22 | 8.0 | 14.5 | 13 S | 16.4 |
| 23 | | 17.6 | 16 | 24.6 |
| 24 | | 20.1 | 19 | 33.0 |
| 25 | | 20.3 | 19 | 33.3 |
| 26 | | 21.1 | 18 | 34.6 |
| 27 | | 20.3 | 17 | 28.7 |
| 28 | | 17.6 | 13 | 19.8 |
| 29 | | 17.6 | 13 | 18.7 |
| 30 | | 17.3 | 13 | 18.4 |
| 31 | 7.5 | 17.0 | 13 S | 18.1 |
| TOTAL | | 437.18 | | 540.35 |
| MEAN | | 14.1 | | 17.4 |
| **NOV** | | | | |
| | | 18.4 | | |
| | | 14.8 | | |
| | | 14.6 | | |
| | | 14.5 | | |
| | | 14.2 | | |
| | | 15.1 | | |
| | | 24.8 | | |
| | | 27.7 | | |
| | | 28.4 | | |
| | | 27.6 | | |
| | | 25.3 | | |
| | | 24.2 | | |
| | | 24.0 | | |
| | | 24.3 | | |
| | | 25.4 | | |
| | | 28.1 | | |
| | | 30.4 | | |
| | | 31.8 | | |
| | | 34.7 | | |
| | | 34.4 | | |
| | | 33.8 | | |
| | | 24.0 B | | |
| | | 25.4 B | | |
| | | 23.0 B | | |
| | | 21.1 B | | |
| | | 19.5 B | | |
| | | 18.3 B | | |
| | | 18.6 B | | |
| | | 18.2 B | | |
| | | 18.6 B | | |
| | | 704.0 | | |
| | | 23.5 | | |
| **DEC** | | | | |
| | | 18.0 B | | |
| | | 15.0 B | | |
| | | 14.5 B | | |
| | | 14.0 B | | |
| | | 13.6 B | | |
| | | 13.5 B | | |
| | | 13.3 B | | |
| | | 13.2 B | | |
| | | 13.1 B | | |
| | | 13.1 B | | |
| | | 13.0 B | | |
| | | 12.9 B | | |
| | | 12.9 B | | |
| | | 12.9 B | | |
| | | 12.9 B | | |
| | | 12.0 B | | |
| | | 11.6 B | | |
| | | 11.3 B | | |
| | | 11.0 B | | |
| | | 10.7 B | | |
| | | 10.5 B | | |
| | | 10.3 B | | |
| | | 10.1 B | | |
| | | 9.90 B | | |
| | | 9.80 B | | |
| | | 9.80 B | | |
| | | 9.50 B | | |
| | | 9.50 B | | |
| | | 9.50 B | | |
| | | 9.50 B | | |
| | | 9.50 B | | |
| | | 9.50 B | | |
| | | 10.3 B | | |
| | | 386.10 | | |
| | | 11.8 | | |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 972 ON MAY 26

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 33 400 ON MAY 26

A - MANUAL GAUGE B - ICE CONDITIONS

B - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 42 30 N
LONG 113 02 30 W
DRAINAGE AREA 17 000 $km^2$
REGULATED FLOW SINCE 1910

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 28 | 10:30 | 266 H | 16.0 | 985 K | 15 | 20 | 32 | 45 | 65 | 81 | 93 | 98 | 99 | 99 | | DNW |
| MAY 31 | 10:30 | 255 | 12.0 | 444 R | 15 | 19 | 28 | 45 | 59 | 76 | 88 | 96 | 99 | 99 | | DNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.27 B | | | | 2.17 B | | | | 2.33 B | | |
| 2 | | 2.26 B | | | | 1.88 B | | | | 2.50 B | | |
| 3 | | 2.28 B | | | | 1.85 B | | | | 2.58 B | | |
| 4 | | 2.30 B | | | | 1.80 B | | | | 3.00 B | | |
| 5 | | 2.30 B | | | | 1.85 B | | | | 3.25 B | | |
| 6 | | 2.33 B | | | | | | | | | | |
| 7 | | 2.26 B | | | | 1.85 B | | | | 3.47 E | | |
| 8 | | 2.26 B | | | | 2.30 B | | | | 3.77 B | | |
| 9 | | 2.07 B | | | | 2.08 B | | | | 3.92 B | | |
| 10 | | 2.13 B | | | | 2.07 B | | | | 4.49 B | | |
| | | | | | | 2.14 B | | | | 5.93 B | | |
| 11 | | 2.01 B | | | | | | | | | | |
| 12 | | 1.97 B | | | | 2.33 B | | | | | | |
| 13 | | 1.78 B | | | | 2.57 B | | | | 4.81 B | | |
| 14 | | 1.78 B | | | | 2.26 B | | | | 3.91 B | | |
| 15 | | 1.80 B | | | | 2.15 B | | | | 3.62 B | | |
| | | | | | | 2.16 B | | | | 3.13 B | | |
| 16 | | 1.85 B | | | | | | | | 2.75 B | | |
| 17 | | 1.82 B | | | | 2.21 B | | | | | | |
| 18 | | 1.85 B | | | | 2.25 B | | | | 2.62 B | | |
| 19 | | 1.80 B | | | | 2.30 B | | | | 2.71 B | | |
| 20 | | 1.80 B | | | | 2.28 B | | | | 2.84 B | | |
| | | | | | | 2.33 B | | | | 2.60 B | | |
| 21 | | 1.75 B | | | | | | | | 2.59 B | | |
| 22 | | 1.70 B | | | | 2.21 B | | | | | | |
| 23 | | 1.72 B | | | | 2.20 B | | | | 2.68 B | | |
| 24 | | 1.34 B | | | | 2.22 B | | | | 2.77 B | | |
| 25 | | 1.48 B | | | | 2.28 B | | | | 2.74 B | | |
| | | | | | | 2.28 B | | | | 2.88 B | | |
| 26 | | 1.85 B | | | | | | | | 2.81 B | | |
| 27 | | 1.88 B | | | | 2.21 B | | | | | | |
| 28 | | 1.85 B | | | | 2.13 B | | | | 2.88 B | | |
| 29 | | 1.90 B | | | | 2.22 B | | | | 2.88 B | | |
| 30 | | 1.85 B | | | | | | | | 2.78 B | | |
| 31 | | 2.00 B | | | | | | | | 2.68 B | | |
| | | | | | | | | | | 2.83 B | | |
| | | | | | | | | | | 2.84 B | | |
| TOTAL | | 80.79 | | | | 60.88 | | | | 95.12 | | |
| MEAN | | 1.88 | | | | 2.17 | | | | 3.10 | | |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.24 B | 4 | 0.77 | | 8.28 | 10 | 7.15 | 7.0 | 32.3 | 12 S | 33.5 | 1 |
| 2 | | 2.16 B | 4 | 0.75 | | 8.78 | 11 | 8.34 | 7.0 | 28.8 | 9 S | 23.3 | 2 |
| 3 | | 2.50 B | 4 | 0.85 | | 10.7 | 11 | 10.2 | | 33.8 | 9 | 26.3 | 3 |
| 4 | | 2.08 B | 4 | 0.71 | | 12.8 | 11 | 12.2 | 8.0 | 36.0 | 11 S | 34.2 | 4 |
| 5 | 2.5 | 2.06 B | 4 S | 0.71 | | 13.7 | 12 | 14.2 | | 36.1 | 13 | 40.5 | 5 |
| 6 | | 2.81 B | 5 | | | | | | | | | | |
| 7 | | 3.16 B | 7 | 1.08 | | 14.9 | 12 | 15.4 | 8.5 | 34.5 | 12 S | 35.4 | 6 |
| 8 | | 3.27 B | 6 | 1.02 | | 15.3 | 12 S | 18.0 | 8.5 | 34.0 | 8 S | 26.4 | 7 |
| 9 | | 3.83 B | 6 | 2.26 | | 16.5 | 12 | 18.2 | 8.5 | 31.8 | 8 S | 22.0 | 8 |
| 10 | | 3.80 B | 8 | 1.96 | | 17.4 | 12 | 16.5 | | 31.0 | 7 | 18.7 | 9 |
| | | | | 1.80 | | 14.4 | 12 | 16.9 | 11.5 | 28.8 | 8 S | 19.8 | 10 |
| 11 | | 3.32 B | 8 | | | | | | | | | | |
| 12 | | 3.46 B | 8 | 1.80 | | 13.7 | 12 | 14.2 | | 26.5 | 7 | 18.0 | 11 |
| 13 | | 3.32 B | 9 | 1.81 | | 14.0 | 11 | 13.3 | 8.0 | 24.9 | 6 S | 12.8 | 12 |
| 14 | | 3.40 B | 11 | 1.80 | | 13.6 | 11 | 13.1 | | 22.7 | 4 | 7.88 | 13 |
| 15 | | 2.86 B | 12 | 2.28 | | 14.6 | 11 | 13.8 | 13.0 | 20.8 | 4 S | 7.12 | 14 |
| | | | | 2.76 | | 15.0 | 10 | 13.7 | | 19.7 | 4 | 8.81 | 15 |
| 16 | | 2.82 B | 13 | | | | | | | | | | |
| 17 | | 3.06 B | 15 S | 3.17 | | 16.4 | 9 | 12.8 | 8.5 | 19.0 | 4 S | 6.57 | 16 |
| 18 | | 3.76 B | 14 | 3.88 | | 17.7 | 8 | 13.8 | | 18.2 | 4 S | 8.28 | 17 |
| 19 | | 4.50 B | 19 | 5.85 | | 18.3 | 8 | 13.2 | 9.0 | 17.8 | 4 S | 6.05 | 18 |
| 20 | | 5.03 B | 31 | 7.38 | | 16.8 | 8 | 12.9 | | 16.1 | 4 | 5.55 | 19 |
| | | | | 9.13 | | 16.6 | 8 S | 12.8 | 11.0 | 14.5 | 6 S | 8.28 | 20 |
| 21 | | 5.26 | 33 | | | | | | | | | | |
| 22 | | 5.46 | 27 | 12.5 | | 25.5 | 16 | 26.6 | | 13.6 | 6 | 7.08 | 21 |
| 23 | | 5.27 | 30 | 19.8 | | 29.7 | 18 S | 46.2 | 13.0 | 13.1 | 6 S | 6.78 | 22 |
| 24 | | 15.7 | 33 S | 24.0 | | 32.6 | 28 S | 102 | | 13.3 | 5 | 5.75 | 23 |
| 25 | | 20.6 | 25 | 44.8 | | 35.8 | 28 S | 111 | 15.0 | 13.7 | 3 S | 3.55 | 24 |
| | | | | 44.3 | 12.0 | 39.0 | 34 S | 119 | | 12.8 | 3 | 3.32 | 25 |
| 26 | | 12.2 | 13 S | | | | | | | | | | |
| 27 | 3.0 | 10.5 | 8 S | 13.7 | 8.0 | 46.1 | 80 S | 228 | | 11.8 | 3 S | 3.08 | 26 |
| 28 | | 8.84 | 7 S | 7.26 | 10.0 | 43.8 | 23 S | 124 | 13.0 | 11.2 | 3 S | 2.90 | 27 |
| 29 | | 7.85 | 7 | 5.61 | 10.5 | 40.5 | 21 S | 73.5 | 16.0 | 11.3 | 4 S | 2.91 | 28 |
| 30 | | 9.88 | 10 | 4.81 | 9.0 | 41.2 | 25 S | 89.0 | | 10.8 | 4 | 2.77 | 29 |
| 31 | | | | 8.37 | | 41.3 | 23 | 82.1 | | 12.8 | 3 | 3.27 | 30 |
| | | | | | 5.0 | 38.8 | 18 S | 88.4 | | | | | 31 |
| TOTAL | | 166.25 | | 337.85 | | 711.58 | | 1 338.79 | | 652.0 | | 405.28 | TOTAL |
| MEAN | | 5.54 | | 7.92 | | 23.0 | | 43.2 | | 21.7 | | 13.5 | MEAN |

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10.5 | 11.4 | 3 S | 2.95 | | 5.81 | 4 | 2.28 | | 3.04 | 2 | 0.88 | 1 |
| 2 | | 10.8 | 3 | 2.80 | | 5.36 | 4 | 2.20 | | 3.01 | 2 | 0.88 | 2 |
| 3 | 13.0 | 12.0 | 4 S | 4.15 | | 5.14 | 4 | 2.12 | | 3.00 | 2 | 0.87 | 3 |
| 4 | | 12.5 | 4 | 4.32 | | 5.04 | 4 | 2.06 | | 3.00 | 2 | 0.87 | 4 |
| 5 | 17.0 | 11.4 | 5 S | 4.92 | | 5.78 | 3 | 1.48 | | 3.01 | 2 | 0.86 | 5 |
| 6 | | 10.8 | 7 | 6.59 | | 5.48 | 4 | 1.89 | | 3.01 | 2 | 0.86 | 6 |
| 7 | 18.0 | 11.1 | 8 S | 7.87 | | 5.33 | 4 | 1.84 | | 3.86 | 2 | 0.87 | 7 |
| 8 | | 13.7 | 8 S | 9.47 | | 5.46 | 3 | 1.41 | | 3.85 | 2 | 0.87 | 8 |
| 9 | 18.0 | 12.8 | 8 S | 8.84 | | 5.43 | 3 | 1.41 | | 3.83 | 2 | 0.88 | 9 |
| 10 | | 10.5 | 8 | 4.71 | | 5.26 | 2 | 1.38 | | 3.82 | 2 | 0.86 | 10 |
| 11 | | 10.0 | 8 | 4.32 | | 5.33 | 3 | 1.38 | | 3.83 | 2 | 0.86 | 11 |
| 12 | | 9.81 | 8 | 4.15 | | 5.22 | 3 | 1.35 | | 3.83 | 2 | 0.86 | 12 |
| 13 | | 9.61 | 8 | 4.11 | | 5.12 | 3 | 1.33 | | 3.80 | 2 | 0.86 | 13 |
| 14 | | 11.6 | 4 | 4.01 | | 4.82 | 3 | 1.28 | | 3.78 | 2 | 0.86 | 14 |
| 15 | 15.0 | 10.5 | 3 S | 2.83 | | 4.79 | 3 | 1.24 | | 3.73 | 2 | 0.84 | 15 |
| 16 | | 11.2 | 3 | 2.90 | | 4.70 | 3 | 1.22 | | 3.86 | 2 | 0.83 | 16 |
| 17 | | 12.4 | 3 | 3.21 | | 4.63 | 2 | 0.80 | | 3.77 | 2 | 0.86 | 17 |
| 18 | | 12.9 | 3 | 3.34 | | 4.62 | 2 | 0.80 | | 3.81 | 2 | 0.86 | 18 |
| 19 | 15.0 | 11.6 | 3 S | 3.01 | | 4.86 | 2 | 0.88 | | 3.80 | 2 | 0.86 | 19 |
| 20 | | 11.2 | 3 | 2.90 | | 4.68 | 3 | 1.21 | | 3.83 | 1 | 0.31 | 20 |
| 21 | | 10.8 | 3 | 2.83 | | 4.83 | 3 | 1.17 | | 3.81 | 1 | 0.31 | 21 |
| 22 | | 9.93 | 3 | 2.57 | | 4.46 | 2 | 0.77 | | 3.87 | 1 | 0.32 | 22 |
| 23 | | 9.38 | 4 | 3.23 | | 4.61 | 2 | 0.78 | | 3.88 | 1 | 0.32 | 23 |
| 24 | | 9.12 | 4 | 3.15 | | 4.51 | 2 | 0.78 | | 3.84 | 1 | 0.31 | 24 |
| 25 | | 8.90 | 4 | 3.08 | | 4.42 | 2 | 0.78 | | 3.87 | 1 | 0.31 | 25 |
| 26 | 15.0 | 8.38 | 4 S | 3.23 | | 4.35 | 2 | 0.75 | 7.0 | 3.47 | 1 S | 0.30 | 26 |
| 27 | | 8.25 | 4 | 2.88 | | 4.27 | 2 | 0.74 | | 3.55 | 1 | 0.31 | 27 |
| 28 | | 7.74 | 4 | 2.67 | | 4.26 | 2 | 0.73 | | 3.84 | 1 | 0.33 | 28 |
| 29 | | 7.80 | 4 | 2.58 | | 4.28 | 2 | 0.74 | | 3.87 | 1 | 0.32 | 29 |
| 30 | | 7.13 | 4 | 2.46 | | 4.12 | 2 | 0.71 | | 3.89 | 1 | 0.31 | 30 |
| 31 | 11.5 | 6.77 | 4 S | 2.34 | 14.5 | 4.00 | 2 S | 0.89 | | | | | 31 |
| TOTAL | | 323.48 | | 120.04 | | 154.32 | | 38.11 | | 112.80 | | 18.08 | TOTAL |
| MEAN | | 10.4 | | 3.87 | | 4.98 | | 1.23 | | 3.76 | | 0.84 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.58 | 1 | 0.31 | | 2.84 | | | | 1.00 B | | | 1 |
| 2 | | 3.46 | 1 | 0.30 | | 2.61 | | | | 0.890 B | | | 2 |
| 3 | | 3.64 | 1 | 0.31 | | 2.49 | | | | 0.870 B | | | 3 |
| 4 | | 3.52 | 1 | 0.30 | | 4.30 | | | | 0.880 B | | | 4 |
| 5 | | 3.51 | 1 | 0.30 | | 4.88 | | | | 0.890 B | | | 5 |
| 6 | | 3.48 | 1 | 0.30 | | 3.85 | | | | 0.850 B | | | 6 |
| 7 | | 3.41 | 1 | 0.29 | | 3.24 | | | | 0.900 B | | | 7 |
| 8 | | 3.31 | 1 | 0.28 | | 3.00 B | | | | 0.810 B | | | 8 |
| 9 | | 3.25 | 1 | 0.28 | | 2.85 B | | | | 0.840 B | | | 9 |
| 10 | | 3.30 | 1 | 0.28 | | 3.55 B | | | | 0.890 B | | | 10 |
| 11 | | 3.25 | 1 | 0.28 | | 3.54 B | | | | 1.10 B | | | 11 |
| 12 | | 3.15 | 1 | 0.27 | | 3.48 B | | | | 1.18 B | | | 12 |
| 13 | | 3.09 | 1 | 0.27 | | 2.98 B | | | | 1.22 B | | | 13 |
| 14 | | 3.06 | 1 | 0.26 | | 2.70 B | | | | 1.21 B | | | 14 |
| 15 | | 3.07 | 1 | 0.27 | | 2.66 B | | | | 1.20 B | | | 15 |
| 16 | | 3.06 | 1 | 0.26 | | 2.88 B | | | | 1.19 B | | | 16 |
| 17 | | 2.98 | 1 | 0.26 | | 3.44 B | | | | 1.17 B | | | 17 |
| 18 | | 2.95 | 1 | 0.26 | | 2.27 B | | | | 1.10 B | | | 18 |
| 19 | | 2.92 | 1 | 0.26 | | 2.32 B | | | | 0.880 B | | | 19 |
| 20 | | 2.84 | 1 | 0.25 | | 2.36 B | | | | 0.890 B | | | 20 |
| 21 | | 2.82 | 1 | 0.24 | | 2.32 B | | | | 0.830 B | | | 21 |
| 22 | | 2.80 | 1 | 0.24 | | 1.86 B | | | | 0.810 B | | | 22 |
| 23 | | 2.85 | 1 | 0.25 | | 2.00 B | | | | 0.800 B | | | 23 |
| 24 | | 2.81 | 1 | 0.24 | | 2.30 B | | | | 0.800 B | | | 24 |
| 25 | | 2.81 | 1 | 0.24 | | 2.52 B | | | | 0.810 B | | | 25 |
| 26 | | 2.75 | 1 | 0.24 | | 2.76 B | | | | 0.820 B | | | 26 |
| 27 | | 2.70 | 1 | 0.23 | | 2.52 B | | | | 0.830 B | | | 27 |
| 28 | | 2.66 | 1 | 0.23 | | 2.66 B | | | | 0.920 B | | | 28 |
| 29 | | 2.62 | 1 | 0.23 | | 2.52 B | | | | 1.10 B | | | 29 |
| 30 | | 2.58 | 1 | 0.22 | | 1.82 B | | | | 1.30 B | | | 30 |
| 31 | 8.0 | 2.58 | 1 S | 0.22 | | | | | | 1.48 B | | | 31 |
| TOTAL | | 94.78 | | 8.17 | | 83.86 | | | | 30.860 | | | TOTAL |
| MEAN | | 3.06 | | 0.26 | | 2.80 | | | | 0.995 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 80 ON MAY 26

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 235 ON MAY 26

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 50 N
LONG 114 11 00 W
DRAINAGE AREA 1 440 $km^2$
NATURAL FLOW

ALBERTA

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 500 B | | | | 531 B | | | | 534 B | | |
| 2 | | 1 410 B | | | | 528 B | | | | 504 B | | |
| 3 | | 1 470 B | | | | 532 B | | | | 500 B | | |
| 4 | | 1 530 B | | | | 527 B | | | | 501 B | | |
| 5 | | 1 400 B | | | | 520 B | | | | 505 B | | |
| 6 | | 1 440 B | | | | 522 B | | | | 508 B | | |
| 7 | | 1 480 B | | | | 548 B | | | | 501 B | | |
| 8 | | 1 440 B | | | | 585 B | | | | 507 B | | |
| 9 | | 1 520 B | | | | 625 B | | | | 502 B | | |
| 10 | | 1 400 B | | | | 662 B | | | | 500 B | | |
| 11 | | 1 200 B | | | | 695 B | | | | 530 B | | |
| 12 | | 1 030 B | | | | 695 B | | | | 505 B | | |
| 13 | | 1 010 B | | | | 692 B | | | | 504 B | | |
| 14 | | 978 B | | | | 695 B | | | | 574 B | | |
| 15 | | 970 B | | | | 693 B | | | | 567 B | | |
| 16 | | 978 B | | | | 691 B | | | | 585 B | | |
| 17 | | 538 B | | | | 686 B | | | | 561 B | | |
| 18 | | 538 B | | | | 695 B | | | | 540 B | | |
| 19 | | 787 B | | | | 671 B | | | | 544 B | | |
| 20 | | 898 B | | | | 651 B | | | | 550 B | | |
| 21 | | 724 B | | | | 635 B | | | | 581 B | | |
| 22 | | 1 000 B | | | | 643 B | | | | 537 B | | |
| 23 | | 977 B | | | | 654 B | | | | 528 B | | |
| 24 | | 915 B | | | | 669 B | | | | 559 B | | |
| 25 | | 882 B | | | | 663 B | | | | 524 B | | |
| 26 | | 729 B | | | | 683 B | | | | 594 B | | |
| 27 | | 538 B | | | | 680 B | | | | 604 B | | |
| 28 | | 581 B | | | | 680 B | | | | 625 B | | |
| 29 | | 589 B | | | | | | | | 603 B | | |
| 30 | | 578 B | | | | | | | | 551 B | | |
| 31 | | 582 B | | | | | | | | 516 B | | |
| TOTAL | | 32 332 | | | | 17 763 | | | | 17 785 | | |
| MEAN | | 1 040 | | | | 634 | | | | 573 | | |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 783 B | | | | 1 630 | 188 | 25 800 | | 3 030 | 783 | 205 000 |
| 2 | | 861 B | | | | 1 590 | 224 | 30 800 | 13.0 | 2 860 | 781 S | 193 000 |
| 3 | | 892 B | | | 9.5 | 1 410 | 290 S | 35 300 | | 2 590 | 403 | 90 200 |
| 4 | | 804 B | | | | 1 590 | 385 | 54 300 | 15.0 | 2 350 | 182 S | 33 000 |
| 5 | | 693 B | | | | 1 750 | 542 | 82 000 | 16.0 | 2 080 | 151 S | 26 900 |
| 6 | | 612 B | | | | | | | | | | |
| 7 | | 624 B | | | | 1 820 | 487 | 78 800 | 17.0 | 1 880 | 184 S | 26 900 |
| 8 | | 868 B | | | | 1 630 | 392 | 55 200 | 15.0 | 1 480 | 138 S | 17 500 |
| 9 | | 780 B | | | | 1 570 | 419 | 50 500 | 15.0 | 1 440 | 123 S | 15 300 |
| 10 | | 818 B | | | 8.0 | 1 770 | 500 S | 76 500 | 15.0 | 1 310 | 104 S | 14 500 |
| | | | | | 10.0 | 1 880 | 582 S | 110 000 | 13.0 | 1 880 | 171 S | 24 800 |
| 11 | | 824 B | | | | | | | | | | |
| 12 | | 782 B | | | | 3 230 | 1 110 | 214 000 | 15.0 | 1 880 | 148 S | 24 700 |
| 13 | | 780 B | | | 10.0 | 3 580 | 1 380 S | 308 000 | 14.0 | 1 880 | 154 S | 24 700 |
| 14 | | 800 B | | | 10.0 | 3 700 | 1 080 S | 252 000 | | 2 030 | 180 | 33 300 |
| 15 | | 1 240 B | | | 9.0 | 2 570 | 888 S | 148 000 | | 1 810 | 153 | 28 200 |
| | | | | | | 2 480 | 418 | 89 800 | | 1 880 | 148 | 24 200 |
| 16 | | 1 100 B | | | 10.0 | 2 640 | 330 S | 72 400 | 16.0 | 1 780 | 131 S | 18 800 |
| 17 | | 845 B | | | 9.0 | 2 510 | 224 S | 48 800 | | 1 840 | 103 | 14 800 |
| 18 | | 1 150 B | | | 10.0 | 2 510 | 201 S | 43 800 | | 1 520 | 87 | 12 700 |
| 19 | | 1 380 B | | | | 2 820 | 258 | 58 200 | 13.0 | 1 800 | 140 S | 21 800 |
| 20 | | 1 480 B | | | | 2 850 | 288 | 81 800 | 13.5 | 1 710 | 184 S | 24 200 |
| 21 | | 1 840 B | | | | 2 810 | 243 | 84 800 | | 2 880 | 1 870 | 438 000 |
| 22 | | 1 490 B | | | | 2 810 | 245 | 85 200 | 13.0 | 4 730 | 4 640 S | 1 870 000 |
| 23 | | 1 580 B | | | | 2 850 | 327 | 97 900 | | 4 290 | 2 780 | 1 030 000 |
| 24 | | 1 740 B | | | | 2 830 | 345 | 99 800 | 14.0 | 3 580 | 1 780 S | 538 000 |
| 25 | | 1 880 | | | | 2 870 | 288 | 88 300 | | 3 300 | 1 880 | 483 000 |
| 26 | | 1 820 | | | | 3 000 | 285 | 73 800 | | 3 820 | 1 830 | 820 000 |
| 27 | | 2 080 | | | | 2 850 | 283 | 73 200 | 15.0 | 4 580 | 3 020 S | 1 200 000 |
| 28 | | 1 900 | | | | 2 780 | 273 | 65 100 | 13.0 | 4 040 | 1 880 S | 858 000 |
| 29 | | 1 880 | | | | 2 840 | 268 | 81 400 | | 3 780 | 874 | 318 000 |
| 30 | | 1 820 | | | | 2 840 | 318 | 72 800 | 14.0 | 3 850 | 771 S | 383 000 |
| 31 | | | | | | 2 800 | 480 | 118 000 | | | | |
| TOTAL | | 36 782 | | | | 73 770 | | 2 885 100 | | 77 780 | | 8 327 400 |
| MEAN | | 1 180 | | | | 2 380 | | 88 000 | | 2 590 | | 276 000 |

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4 080 | 880 | 309 000 | | 3 740 | | | | 1 530 | 70 | 9 880 | 1 |
| 2 | 15.0 | 3 600 | 1 180 S | 381 000 | | 3 480 | | | | 1 210 | 60 | 6 270 | 2 |
| 3 | | 3 540 | 1 500 | 459 000 | | 3 450 | | | | 1 100 | 60 | 6 170 | 3 |
| 4 | | 3 780 | 1 580 | 511 000 | | 3 280 | | | | 1 820 | 102 | 16 000 | 4 |
| 5 | | 4 280 | 1 800 | 666 000 | | 3 150 | | | | 2 050 | 148 | 26 200 | 5 |
| 6 | | 4 820 | 1 880 | 770 000 | | 2 900 | | | | | | | 6 |
| 7 | 13.0 | 5 000 | 1 430 S | 618 000 | | 2 730 | | | 12.0 | 1 930 | 104 S | 17 300 | 7 |
| 8 | 14.0 | 5 240 | 2 310 S | 1 080 000 | | 2 430 | | | 11.5 | 1 880 | 81 S | 12 300 | 8 |
| 9 | | 5 640 | 2 760 | 1 380 000 | | 2 330 | | | 11.5 | 2 080 | 81 S | 14 300 | 9 |
| 10 | | 5 920 | 1 700 | 818 000 | | 2 300 A | | | 12.0 | 2 000 | 88 S | 15 200 | 10 |
| | | | | | | | | | 11.0 | 1 890 | 83 S | 9 110 | |
| 11 | | 5 810 | 1 070 | 518 000 | | 2 080 E | | | | | | | 11 |
| 12 | 14.0 | 5 240 | 889 S | 288 000 | | 1 886 E | | | | 1 950 | 38 | 6 400 | 12 |
| 13 | | 4 970 | 405 | 174 000 | | 1 670 E | | | 11.5 | 1 670 | 37 S | 5 980 | 13 |
| 14 | | 4 480 | 238 | 82 100 | | 1 480 E | | | 11.0 | 1 940 | 38 S | 6 370 | 14 |
| 15 | | 4 330 | 424 | 159 000 | | 1 280 E | | | 11.0 | 1 880 | 31 S | 5 040 | 15 |
| | | | | | 17.3 | | 100 S | 10 800 | 11.2 | 1 810 | 34 S | 5 320 | |
| 16 | | 5 670 | 2 140 | 1 010 000 | | 1 040 A | 98 | 8 900 | | 1 930 | 38 | 6 340 | 16 |
| 17 | | 7 190 | 3 220 | 1 950 000 | | 1 020 | 88 | 7 780 | | 2 080 | 48 | 8 680 | 17 |
| 18 | | 8 620 | 2 080 | 1 330 000 | 15.0 | 1 120 | 75 S | 7 320 | | 2 070 | 50 | 8 940 | 18 |
| 19 | | 8 130 | 1 370 | 728 000 | | 1 040 | 84 | 8 780 | 11.0 | 2 030 | 38 S | 6 880 | 19 |
| 20 | 14.0 | 5 110 A | 1 040 S | 458 000 | | 1 150 | 87 | 8 720 | 10.5 | 1 930 | 36 S | 6 700 | 20 |
| 21 | | 3 910 A | | | | 1 310 | 88 | 9 730 | | 2 010 | 31 | 5 380 | 21 |
| 22 | | 3 470 | | | | 1 270 | 82 | 9 000 | 11.5 | 2 030 | 28 S | 4 860 | 22 |
| 23 | | 3 330 | | | | 1 320 | 78 | 8 670 | 11.5 | 2 030 | 36 S | 6 310 | 23 |
| 24 | | 3 580 | | | 15.5 | 1 830 | 104 S | 17 300 | | 1 880 | 34 | 5 530 | 24 |
| 25 | | 3 730 | | | 15.0 | 1 670 | 98 S | 16 000 | | 1 880 | 28 | 4 220 | 25 |
| 26 | | 3 870 | | | | 1 580 | 88 | 9 280 | | 1 930 | 28 | 4 840 | 26 |
| 27 | | 4 180 | | | | 1 480 | 88 | 7 270 | | 1 880 | 27 | 4 390 | 27 |
| 28 | | 5 320 | | | | 1 810 | 71 | 9 880 | | 1 930 | 28 | 4 670 | 28 |
| 29 | | 4 530 | | | | 1 550 | 87 | 8 970 | | 2 010 | 28 | 4 880 | 29 |
| 30 | | 4 210 | | | | 1 520 | 88 | 7 220 | | 2 110 | 28 | 5 100 | 30 |
| 31 | | 4 020 | | | | 1 700 | 82 | 9 110 | | | | | 31 |
| TOTAL | | 145 530 | | | | 80 630 | | | | 55 730 | | 249 780 | TOTAL |
| MEAN | | 4 890 | | | | 1 860 | | | | 1 890 | | 8 330 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 090 | 27 | 4 840 | | 1 890 | | | | 951 | | | 1 |
| 2 | | 2 110 | 27 | 4 820 | | 1 830 | | | | 1 110 | | | 2 |
| 3 | 10.0 | 2 040 | 26 S | 4 580 | | 1 890 | | | | 1 120 | | | 3 |
| 4 | 9.0 | 2 020 | 28 S | 5 080 | | 1 780 | | | | 1 100 | | | 4 |
| 5 | | 2 020 | 27 | 4 710 | | 1 700 | | | | 1 180 | | | 5 |
| 6 | | 1 920 | 27 | 4 480 | | 1 890 | | | | 1 190 | | | 6 |
| 7 | | 1 870 | 22 | 3 550 | | 1 890 | | | | 1 280 A | | | 7 |
| 8 | | 1 780 | 18 | 2 920 | | 1 810 | | | | 1 240 A | | | 8 |
| 9 | | 1 880 | 20 | 3 210 | | 1 780 | | | | 1 840 | | | 9 |
| 10 | | 1 950 | 25 | 4 210 | | 1 880 | | | | 1 780 | | | 10 |
| 11 | | 1 930 | 30 | 5 000 | | 1 730 | | | | 1 620 | | | 11 |
| 12 | | 1 930 | 25 | 4 170 | | 1 840 | | | | 1 490 B | | | 12 |
| 13 | | 1 770 | 18 | 2 480 | | 1 880 | | | | 1 540 B | | | 13 |
| 14 | | 1 580 | 12 | 1 820 | | 1 880 | | | | 1 590 B | | | 14 |
| 15 | | 1 880 | 15 | 2 150 | | 1 870 | | | | 1 920 B | | | 15 |
| 16 | | 1 520 | 12 | 1 880 | | 1 630 | | | | 1 880 B | | | 16 |
| 17 | | 1 330 | 7 | 804 | | 1 430 | | | | 1 850 B | | | 17 |
| 18 | | 1 430 | 14 | 1 720 | | 1 540 | | | | 1 800 B | | | 18 |
| 19 | | 1 400 | 10 | 1 210 | | 1 310 | | | | 1 800 B | | | 19 |
| 20 | | 1 250 | 10 | 1 080 | | 1 380 | | | | 1 810 B | | | 20 |
| 21 | | 1 250 | 10 | 1 080 | | 1 280 | | | | 1 820 B | | | 21 |
| 22 | | 1 180 | 8 | 801 | | 1 040 | | | | 1 880 B | | | 22 |
| 23 | | 1 080 | 4 | 377 | | 1 280 | | | | 1 880 B | | | 23 |
| 24 | | 1 040 | 5 | 448 | | 878 | | | | 1 880 B | | | 24 |
| 25 | | 995 | 4 | 344 | | 780 | | | | 1 770 B | | | 25 |
| 26 | | 1 380 | 21 | 2 520 | | 813 | | | | 1 610 B | | | 26 |
| 27 | | 1 780 | 27 | 4 150 | | 848 | | | | 1 780 B | | | 27 |
| 28 | | 1 810 | 18 | 2 880 | | 877 | | | | 1 740 B | | | 28 |
| 29 | | 1 720 | 17 | 2 830 | | 784 | | | | 1 870 B | | | 29 |
| 30 | | 1 770 | 21 | 3 210 | | 783 | | | | 1 700 B | | | 30 |
| 31 | | 1 820 | 12 | 1 880 | | | | | | 1 700 B | | | 31 |
| | | | | | | | | | | 1 640 B | | | |
| TOTAL | | 50 675 | | 83 785 | | 42 381 | | | | 47 241 | | | TOTAL |
| MEAN | | 1 640 | | 2 700 | | 1 410 | | | | 1 520 | | | MEAN |

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 14 41 N
LONG 117 18 48 W
DRAINAGE AREA 186 000 km²
REGULATED FLOW SINCE 1967

ALBERTA

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; P - SONIC SIFTER; M - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDE

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METH OF ANALY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 12 | 16:35 | 2 880 M | 10.0 | 1 340 X | 16 | 22 | 38 | 61 | 86 | 94 | 96 | 97 | 98 | 100 | | BMW |
| JUN 22 | 11:30 | 4 720 M | 13.0 | 6 240 X | 12 | 17 | 25 | 37 | 65 | 91 | 95 | 97 | 98 | 99 | | BMW |

M - DAILY MEAN DISCHARGE

X - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.81 E | | | | 7.63 E | | | | 7.82 E | | | 1 |
| 2 | | 8.22 E | | | | 7.87 E | | | | 8.47 E | | | 2 |
| 3 | | 8.21 E | | | | 7.84 E | | | | 8.82 E | | | 3 |
| 4 | | 8.05 E | | | | 7.82 E | | | | 8.82 E | | | 4 |
| 5 | | 8.14 E | | | | 7.10 E | | | | 10.1 E | | | 5 |
| 6 | | 8.40 E | | | | 8.87 E | | | | 10.8 E | | | 6 |
| 7 | | 8.33 E | | | | 8.88 E | | | | 11.3 E | | | 7 |
| 8 | | 8.63 E | | | | 8.80 E | | | | 11.3 E | | | 8 |
| 9 | | 8.88 E | | | | 8.40 E | | | | 12.8 E | | | 9 |
| 10 | | 9.02 E | | | | 8.32 E | | | | 16.7 E | | | 10 |
| 11 | | 9.20 E | | | | 8.11 E | | | | 20.1 E | | | 11 |
| 12 | | 9.06 E | | | | 8.11 E | | | | 23.7 E | | | 12 |
| 13 | | 8.48 E | | | | 7.97 E | | | | 23.5 E | | | 13 |
| 14 | | 8.34 E | | | | 10.5 E | | | | 24.5 E | | | 14 |
| 15 | | 8.61 E | | | | 8.98 E | | | | 25.6 E | | | 15 |
| 16 | | 7.86 E | | | | 10.1 E | | | | 28.0 E | | | 16 |
| 17 | | 8.31 E | | | | 10.2 E | | | | 28.0 E | | | 17 |
| 18 | | 8.27 E | | | | 8.76 E | | | | 30.0 E | | | 18 |
| 19 | | 8.09 E | | | | 9.00 E | | | | 32.0 E | | | 19 |
| 20 | | 8.61 E | | | | 8.10 E | | | | 33.0 E | | | 20 |
| 21 | | 8.50 E | | | | 8.88 E | | | | 34.0 E | | | 21 |
| 22 | | 8.58 E | | | | 8.92 E | | | | 32.0 E | | | 22 |
| 23 | | 8.80 E | | | | 9.24 E | | | | 30.0 E | | | 23 |
| 24 | | 8.37 E | | | | 9.00 E | | | | 28.0 E | | | 24 |
| 25 | | 8.76 E | | | | 8.78 E | | | | 27.0 E | | | 25 |
| 26 | | 8.74 E | | | | 8.25 E | | | | 28.0 E | | | 26 |
| 27 | | 8.50 E | | | | 8.75 E | | | | 28.5 E | | | 27 |
| 28 | | 8.02 E | | | | 8.14 E | | | | 27.5 E | | | 28 |
| 29 | | 7.89 E | | | | | | | | 29.0 E | | | 29 |
| 30 | | 7.77 E | | | | | | | | 31.0 E | | | 30 |
| 31 | | 7.85 E | | | | | | | | 33.7 | | | 31 |
| TOTAL | | 264.13 | | | | 226.92 | | | | 680.43 | | | TOTAL |
| MEAN | | 8.52 | | | | 8.18 | | | | 22.3 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 33.0 E | | | | 81.6 | 222 | 1 780 | 18.3 | 85.3 | 33 S | 243 | 1 |
| 2 | | 40.0 E | | | | 77.6 | 111 S | 744 | | 84.9 | 20 | 112 | 2 |
| 3 | | 50.0 E | | | 10.8 | 71.2 | 74 S | 485 | 15.8 | 35.8 | 9 S | 27.8 | 3 |
| 4 | | 80.0 E | | | 13.3 | 67.6 | 57 S | 334 | | 40.6 | 22 | 77.2 | 4 |
| 5 | | 100 E | | | 13.3 | 63.6 | 46 S | 253 | | 59.6 | 35 | 180 | 5 |
| 6 | 2.3 | 142 | 845 S | 11 800 | 13.3 | 58.6 | 39 S | 184 | 18.0 | 37.6 | 8 S | 25.8 | 6 |
| 7 | 1.7 | 135 | 690 S | 9 240 | 18.8 | 58.6 | 35 S | 171 | | 30.1 | 5 | 13.0 | 7 |
| 8 | 2.8 | 132 | 613 S | 8 090 | | 84.8 | 36 | 180 | 21.1 | 29.4 | 5 S | 12.7 | 8 |
| 9 | 1.0 | 112 | 351 S | 3 400 | | 87.9 | 53 | 285 | | 35.8 | 5 S | 15.3 | 9 |
| 10 | 3.3 | 111 | 210 S | 2 010 | 10.8 | 88.3 | 81 S | 292 | 20.8 | 37.1 | 5 S | 11.7 | 10 |
| 11 | 3.8 | 101 | 185 S | 1 380 | | 85.8 | 38 | 215 | | 37.0 | 5 | 11.7 | 11 |
| 12 | 2.8 | 86.4 | 117 S | 883 | 12.2 | 84.8 | 27 S | 161 | 19.4 | 28.8 | 5 S | 11.8 | 12 |
| 13 | 4.4 | 71.0 | 88 S | 521 | | 82.8 | 22 | 118 | | 25.8 | 5 | 13.4 | 13 |
| 14 | 8.1 | 80.6 | 84 S | 338 | | 83.9 | 18 | 83.8 | 19.4 | 25.3 | 7 S | 15.3 | 14 |
| 15 | 7.8 | 85.0 | 80 S | 336 | | 48.4 | 15 | 64.0 | | 24.8 | 6 | 12.7 | 15 |
| 16 | | 83.2 | 35 | 161 | 12.8 | 43.3 | 20 S | 74.8 | | 24.2 | 5 | 10.5 | 16 |
| 17 | 12.2 | 48.3 | 27 S | 115 | 12.8 | 42.3 | 147 S | 537 | 21.1 | 23.1 | 4 S | 7.88 | 17 |
| 18 | | 47.5 | 23 | 94.4 | 10.0 | 51.8 | 57 S | 288 | | 23.3 | 24 | 183 | 18 |
| 19 | 13.8 | 46.8 | 27 S | 107 | 13.3 | 54.8 | 22 S | 104 | 17.2 | 24.8 | 417 S | 888 | 19 |
| 20 | 16.0 | 44.3 | 22 S | 84.2 | 15.0 | 88.1 | 28 S | 196 | | 36.3 | 848 | 1 240 | 20 |
| 21 | 15.0 | 42.8 | 17 S | 62.8 | | 85.1 | 35 | 141 | 15.8 | 38.3 | 577 S | 1 310 | 21 |
| 22 | 14.4 | 38.8 | 27 S | 82.8 | | 80.8 | 22 | 118 | | 36.3 | 884 | 1 260 | 22 |
| 23 | | 36.8 | 38 | 117 | | 81.4 | 18 | 84.8 | | 36.8 | 838 | 1 180 | 23 |
| 24 | | 36.1 | 31 | 102 | 17.8 | 80.3 | 12 S | 82.8 | | 35.8 | 811 | 1 180 | 24 |
| 25 | 11.7 | 44.3 | 2 820 S | 10 000 | | 81.7 | 8 | 38.7 | | 40.8 | 883 | 3 888 | 25 |
| 26 | 8.8 | 38.8 | 880 S | 3 240 | 18.8 | 84.7 | 13 S | 81.4 | | 42.1 | 880 | 3 480 | 26 |
| 27 | 7.8 | 87.8 | 227 S | 1 230 | | 88.8 | 58 | 350 | 17.8 | 34.1 | 848 S | 2 888 | 27 |
| 28 | 8.3 | 178 | 837 S | 8 880 | 18.4 | 82.1 | 42 S | 288 | 15.8 | 31.7 | 885 S | 1 838 | 28 |
| 29 | 8.2 | 180 | 812 S | 7 880 | | 80.7 | 30 | 208 | 20.8 | 33.8 | 281 S | 1 858 | 29 |
| 30 | | 123 | 387 | 3 780 | 20.8 | 80.8 | 27 S | 187 | | 32.8 | 228 | 838 | 30 |
| 31 | | | | | | 81.7 | 28 | 184 | | | | | 31 |
| TOTAL | | 2 321.1 | | | | 1 888.8 | | 8 184.1 | | 1 888.8 | | 20 281.78 | TOTAL |
| MEAN | | 77.4 | | | | 83.8 | | 284 | | 33.7 | | 878 | MEAN |

# ALBERTA

## RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

### SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CON-CENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CON-CENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CON-CENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 34.5 | 384 | 1 140 | | 27.7 | 21 | 50.4 | | 29.2 | 39 | 98.4 | 1 |
| 2 | | 38.0 | 2 170 | 7 120 | | 24.5 | 17 | 36.0 | | 28.0 | 22 | 53.2 | 2 |
| 3 | 17.8 | 48.8 | 3 030 S | 12 800 | 25.5 | 23.2 | 15 S | 42.0 | | 28.1 | 18 | 43.7 | 3 |
| 4 | 20.0 | 40.0 | 1 700 S | 5 880 | | 31.4 | 13 | 35.3 | | 22.6 | 15 | 29.3 | 4 |
| 5 | 24.4 | 38.3 | 638 S | 2 150 | 22.4 | 30.5 | 12 S | 31.6 | | 20.0 | 16 | 27.6 | 5 |
| 6 | 24.4 | 48.4 | 408 S | 1 710 | | 32.1 | 10 | 27.7 | | 19.8 | 15 | 25.7 | 6 |
| 7 | | 80.4 | 2 890 | 20 100 | 24.4 | 31.4 | 9 S | 24.4 | 13.0 | 19.9 | 13 S | 22.4 | 7 |
| 8 | 22.2 | 139 | 5 330 S | 64 000 | | 30.5 | 9 | 23.7 | | 19.7 | 12 | 20.4 | 8 |
| 9 | | 165 | 2 440 | 34 800 | | 30.2 | 8 | 20.9 | | 19.9 | 12 | 20.6 | 9 |
| 10 | 20.0 | 179 | 689 S | 10 700 | 25.6 | 29.7 | 9 S | 23.1 | | 20.3 | 12 | 21.0 | 10 |
| 11 | | 180 | 371 | 5 770 | | 29.5 | 163 | 415 | | 20.6 | 11 | 19.6 | 11 |
| 12 | 20.0 | 154 | 295 S | 3 930 | 21.7 | 35.9 | 5 220 S | 16 200 | | 20.7 | 11 | 19.7 | 12 |
| 13 | | 130 | 256 | 2 880 | | 26.5 | 1 780 | 4 080 | | 20.1 | 11 | 19.1 | 13 |
| 14 | 20.7 | 102 | 191 S | 1 700 | | 24.1 | 1 150 | 2 390 | | 20.4 | 11 | 19.4 | 14 |
| 15 | | 84.4 | 152 | 1 110 | | 23.2 | 948 | 1 900 | | 20.0 | 11 | 19.0 | 15 |
| 16 | 17.6 | 85.5 | 60 S | 443 | | 24.4 | 812 | 1 710 | | 19.5 | 10 | 16.8 | 16 |
| 17 | | 98.5 | 52 | 442 | | 23.2 | 771 | 1 550 | | 18.0 | 10 | 15.6 | 17 |
| 18 | 19.4 | 98.9 | 75 S | 641 | | 24.5 | 788 | 1 670 | | 18.0 | 10 | 15.6 | 18 |
| 19 | | 105 | 201 | 1 820 | 17.8 | 24.9 | 748 S | 1 610 | | 17.8 | 9 | 13.8 | 19 |
| 20 | 21.7 | 98.1 | 317 S | 2 690 | | 25.3 | 750 | 1 640 | | 17.6 | 8 | 12.2 | 20 |
| 21 | 22.8 | 88.9 | 176 S | 1 350 | | 26.4 | 795 | 1 810 | | 17.8 | 9 | 13.8 | 21 |
| 22 | | 82.3 | 75 | 533 | | 26.8 | 802 | 1 860 | | 18.0 | 8 | 12.4 | 22 |
| 23 | | 72.7 | 59 | 371 | | 28.5 | 801 | 1 970 | | 18.2 | 8 | 12.6 | 23 |
| 24 | | 65.8 | 45 | 256 | | 28.9 | 802 | 2 000 | | 18.2 | 7 | 11.0 | 24 |
| 25 | 23.3 | 61.0 | 33 S | 174 | | 29.5 | 889 | 2 260 | | 18.1 | 7 | 10.9 | 25 |
| 26 | | 61.5 | 28 | 149 | 16.3 | 29.8 | 1 180 S | 2 990 | | 18.1 | 7 | 10.9 | 26 |
| 27 | 22.8 | 58.4 | 27 S | 136 | | 29.2 | 639 | 1 610 | | 18.4 | 7 | 11.1 | 27 |
| 28 | | 57.1 | 33 | 163 | | 28.6 | 298 | 736 | | 17.8 | 7 | 10.8 | 28 |
| 29 | | 67.0 | 40 | 232 | | 28.6 | 147 | 363 | | 17.9 | 7 | 10.8 | 29 |
| 30 | | 63.3 | 30 | 164 | | 28.4 | 93 | 228 | | 18.1 | 6 | 9.38 | 30 |
| 31 | 23.3 | 48.4 | 24 S | 100 | | 28.3 | 65 | 159 | | | | | 31 |
| TOTAL | | 2 649.2 | | 165 784 | | 901.1 | | 50 159.8 | | 599.9 | | 643.78 | TOTAL |
| MEAN | | 85.5 | | 5 350 | | 29.1 | | 1 620 | | 20.0 | | 21.5 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CON-CENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CON-CENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CON-CENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 17.7 | 6 | 9.18 | | 19.8 | | | | 17.2 B | | | 1 |
| 2 | | 17.8 | 6 | 9.23 | | 16.5 | | | | 17.5 B | | | 2 |
| 3 | | 18.0 | 6 | 9.33 | | 19.9 | | | | 17.7 B | | | 3 |
| 4 | | 20.7 | 5 | 8.94 | | 19.9 | | | | 17.8 B | | | 4 |
| 5 | | 20.3 | 4 | 7.02 | | 19.4 | | | | 17.9 B | | | 5 |
| 6 | | 20.8 | 3 | 5.39 | | 19.8 | | | | 18.0 B | | | 6 |
| 7 | | 22.1 | 2 | 3.82 | | 20.0 | | | | 17.9 B | | | 7 |
| 8 | | 26.4 | 2 | 4.56 | | 19.7 | | | | 17.8 B | | | 8 |
| 9 | | 30.1 | 2 | 5.20 | | 20.2 | | | | 17.8 B | | | 9 |
| 10 | | 24.8 | 2 | 4.29 | | 20.1 | | | | 17.8 B | | | 10 |
| 11 | 6.0 | 24.5 | 1 S | 2.12 | | 19.4 | | | | 17.4 B | | | 11 |
| 12 | | 24.5 | | | | 20.5 | | | | 17.1 B | | | 12 |
| 13 | | 24.9 | | | | 19.2 B | | | | 16.9 B | | | 13 |
| 14 | | 25.5 | | | | 18.0 B | | | | 16.7 B | | | 14 |
| 15 | | 25.0 | | | | 17.5 B | | | | 16.5 B | | | 15 |
| 16 | | 25.2 | | | | 17.0 B | | | | 16.4 B | | | 16 |
| 17 | | 27.3 | | | | 16.5 B | | | | 16.3 B | | | 17 |
| 18 | | 26.1 | | | | 15.5 B | | | | 16.2 B | | | 18 |
| 19 | | 26.1 | | | | 14.7 B | | | | 16.1 B | | | 19 |
| 20 | | 26.0 | | | | 14.5 B | | | | 16.0 B | | | 20 |
| 21 | | 28.4 | | | | 14.0 B | | | | 15.8 B | | | 21 |
| 22 | | 29.0 | | | | 13.4 B | | | | 15.7 B | | | 22 |
| 23 | | 27.9 | | | | 13.2 B | | | | 15.6 B | | | 23 |
| 24 | | 28.0 | | | | 13.4 B | | | | 15.5 B | | | 24 |
| 25 | | 23.9 | | | | 13.6 B | | | | 15.4 B | | | 25 |
| 26 | | 23.5 | | | | 14.2 B | | | | 15.3 B | | | 26 |
| 27 | | 22.7 | | | | 15.0 B | | | | 15.2 B | | | 27 |
| 28 | | 19.9 | | | | 15.8 B | | | | 15.1 B | | | 28 |
| 29 | | 19.9 | | | | 16.7 B | | | | 15.0 B | | | 29 |
| 30 | | 18.8 | | | | 17.0 B | | | | 14.9 B | | | 30 |
| 31 | | 18.7 | | | | | | | | 15.0 B | | | 31 |
| TOTAL | | 732.6 | | | | 517.2 | | | | 511.5 | | | TOTAL |
| MEAN | | 23.6 | | | | 17.2 | | | | 16.5 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 5 330 ON JUL 08

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 64 000 ON JUL 08

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 28 05 N
LONG 112 42 30 W
DRAINAGE AREA 24 800 km²
REGULATED FLOW SINCE 1983

ALBERTA

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE, W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | | WATER TEMP. (°C) | | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 05 | 10:15 | 142 | M | 2.2 | | 850 | K | 10 | 15 | 27 | 60 | 80 | 82 | 88 | 100 | | | | BNW |
| APR 25 | 15:00 | 44.3 | M | 11.7 | 2 | 880 | K | 57 | 71 | 83 | 93 | 98 | 98 | 100 | | | | | BNW |
| APR 25 | 15:05 | 44.3 | M | 11.7 | 2 | 910 | K | 56 | 73 | 85 | 95 | 99 | 100 | | | | | | BNW |
| JUN 28 | 11:00 | 31.7 | M | 15.0 | | 548 | K | 83 | 78 | 93 | 98 | 99 | 100 | | | | | | BNW |
| JUL 03 | 08:55 | 48.8 | M | 17.2 | 3 | 010 | K | 64 | 79 | 89 | 97 | 98 | 98 | 100 | | | | | BNW |
| JUL 04 | 13:15 | 40.0 | M | 20.0 | 1 | 280 | K | 48 | 68 | 82 | 96 | 98 | 98 | 100 | | | | | BNW |
| JUL 04 | 13:20 | 40.0 | M | 20.0 | 1 | 290 | K | 50 | 70 | 82 | 96 | 98 | 98 | 100 | | | | | BNW |
| JUL 05 | 13:05 | 139 | M | 22.2 | 4 | 270 | K | 28 | 37 | 48 | 63 | 76 | 93 | 99 | 100 | | | | BNW |
| JUL 05 | 13:10 | 139 | M | 22.2 | 4 | 320 | K | 31 | 38 | 49 | 63 | 77 | 93 | 98 | 98 | 100 | | | BNW |
| AUG 12 | 13:30 | 38.9 | M | 21.7 | 6 | 180 | K | 57 | 74 | 88 | 98 | 98 | 99 | 100 | | | | | BNW |
| AUG 12 | 13:35 | 38.9 | M | 21.7 | 6 | 010 | K | 57 | 73 | 87 | 98 | 98 | 99 | 100 | | | | | BNW |
| AUG 19 | 13:25 | 24.9 | M | 17.8 | | 700 | K | 57 | 84 | 92 | 98 | 98 | 99 | 99 | 100 | | | | BNW |
| AUG 19 | 13:30 | 24.9 | M | 17.8 | | 577 | K | 58 | 82 | 93 | 97 | 98 | 99 | 99 | 100 | | | | BNW |
| AUG 26 | 13:30 | 29.8 | M | 18.3 | 1 | 060 | K | 56 | 73 | 85 | 96 | 98 | 99 | 100 | | | | | BNW |
| AUG 26 | 13:35 | 29.8 | M | 18.3 | 1 | 110 | K | 22 | 50 | 84 | 97 | 98 | 99 | 100 | | | | | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ALBERTA

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

SUSPENDED SEDIMENT FOR 1982

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| 1 | | 9.81 E | | |
| 2 | | 9.13 E | | |
| 3 | | 9.36 E | | |
| 4 | | 9.36 E | | |
| 5 | | 9.83 E | | |
| 6 | | 9.80 E | | |
| 7 | | 7.11 E | | |
| 8 | | 7.40 E | | |
| 9 | | 7.61 E | | |
| 10 | | 7.67 E | | |
| 11 | | 7.75 E | | |
| 12 | | 8.07 E | | |
| 13 | | 8.16 E | | |
| 14 | | 8.33 E | | |
| 15 | | 8.43 E | | |
| 16 | | 8.59 E | | |
| 17 | | 8.61 E | | |
| 18 | | 9.08 E | | |
| 19 | | 9.33 E | | |
| 20 | | 9.34 E | | |
| 21 | | 9.48 E | | |
| 22 | | 9.86 E | | |
| 23 | | 9.86 E | | |
| 24 | | 9.82 E | | |
| 25 | | 10.2 E | | |
| 26 | | 10.4 E | | |
| 27 | | 10.5 E | | |
| 28 | | 10.4 E | | |
| 29 | | 10.2 E | | |
| 30 | | 10.4 E | | |
| 31 | | 10.1 E | | |
| TOTAL | | 285.33 | | |
| MEAN | | 9.66 | | |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| | | 10.2 E | | |
| | | 10.3 E | | |
| | | 10.5 E | | |
| | | 10.4 E | | |
| | | 10.3 E | | |
| | | 10.1 E | | |
| | | 9.98 E | | |
| | | 9.81 E | | |
| | | 9.88 E | | |
| | | 9.78 E | | |
| | | 9.89 E | | |
| | | 9.80 E | | |
| | | 9.80 E | | |
| | | 9.75 E | | |
| | | 9.65 E | | |
| | | 9.65 E | | |
| | | 9.50 E | | |
| | | 9.50 E | | |
| | | 9.50 E | | |
| | | 9.40 E | | |
| | | 9.30 E | | |
| | | 9.20 E | | |
| | | 9.10 E | | |
| | | 9.25 E | | |
| | | 9.30 E | | |
| | | 9.40 E | | |
| | | 9.50 E | | |
| | | 9.80 E | | |
| TOTAL | | 272.80 | | |
| MEAN | | 9.74 | | |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|
| | | 9.70 E | | | |
| | | 9.80 E | | | |
| | | 9.65 E | | | |
| | | 9.80 E | | | |
| | | 10.0 E | | | |
| | | 10.2 E | | | |
| | | 10.4 E | | | |
| | | 11.0 E | | | |
| | | 11.6 E | | | |
| | | 13.0 E | | | |
| | | 15.0 E | | | |
| | | 16.7 E | | | |
| | | 17.7 E | | | |
| | | 18.6 E | | | |
| | | 20.0 E | | | |
| | | 20.6 E | | | |
| | | 22.0 E | | | |
| | | 21.7 E | | | |
| | | 21.3 E | | | |
| | | 20.6 E | | | |
| | | 20.2 E | | | |
| | | 20.0 E | | | |
| | | 20.1 E | | | |
| | | 20.4 E | | | |
| | | 21.9 E | | | |
| | | 23.0 E | | | |
| | | 24.5 E | | | |
| | | 26.0 E | | | |
| | | 28.1 E | | | |
| | | 30.0 E | | | |
| | | 34.0 E | | | |
| TOTAL | | 575.85 | | | TOTAL |
| MEAN | | 18.7 | | | MEAN |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| 1 | | 40.0 E | | |
| 2 | | 48.0 E | | |
| 3 | | 61.0 E | | |
| 4 | | 70.0 E | | |
| 5 | | 82.0 E | | |
| 6 | | 84.3 E | | |
| 7 | | 86.0 E | | |
| 8 | | 73.1 | | |
| 9 | | 72.4 | | |
| 10 | | 66.1 | 69 S | 618 |
| 11 | 0.1 | 57.5 | 63 S | 283 |
| 12 | 0.1 | 47.3 | 39 S | 159 |
| 13 | 2.0 | 40.8 | 28 S | 98.9 |
| 14 | 4.0 | 37.1 | 25 S | 80.1 |
| 15 | 6.0 | 33.2 | 20 S | 57.4 |
| 16 | 5.0 | 31.8 | 17 S | 48.7 |
| 17 | 7.0 | 31.1 | 13 S | 32.2 |
| 18 | 8.0 | 29.5 | 12 S | 30.8 |
| 19 | 8.0 | 28.4 | 10 S | 24.5 |
| 20 | 9.0 | 28.0 | 9 S | 11.3 |
| 21 | | 28.1 | 9 S | 11.3 |
| 22 | 10.0 | 28.2 | 9 S | 11.3 |
| 23 | | 28.6 | 9 S | 11.1 |
| 24 | 11.0 | 28.0 | 9 S | 13.8 |
| 25 | | 27.7 | 9 | 12.0 |
| 26 | 8.0 | 104 | 905 S | 8 140 |
| 27 | 4.0 | 182 | 740 S | 10 400 |
| 28 | 5.0 | 142 | 265 S | 3 510 |
| 29 | 5.0 | 99.9 | 155 S | 1 240 |
| 30 | 5.0 | 78.5 | 81 S | 884 |
| 31 | | | | |
| TOTAL | | 1 773.9 | | |
| MEAN | | 59.1 | | |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| 1 | 8.0 | 87.3 | 68 S | 384 |
| 2 | 7.0 | 83.6 | 64 S | 397 |
| 3 | 7.0 | 88.6 | 47 S | 243 |
| 4 | 8.0 | 84.6 | 34 S | 161 |
| 5 | 8.0 | 83.3 | 40 S | 184 |
| 6 | 8.0 | 81.2 | 38 S | 124 |
| 7 | 10.0 | 81.5 | 30 S | 69.0 |
| 8 | 10.0 | 81.8 | 28 S | 158 |
| 9 | 8.0 | 84.4 | 24 S | 134 |
| 10 | 8.0 | 82.7 | 21 S | 114 |
| 11 | 8.0 | 82.2 | 20 S | 107 |
| 12 | 8.0 | 82.4 | 17 S | 77.0 |
| 13 | 10.0 | 68.0 | 18 S | 68.3 |
| 14 | 8.0 | 35.8 | 10 S | 31.0 |
| 15 | 8.0 | 33.2 | 7 S | 20.1 |
| 16 | | 43.0 | 17 | 63.2 |
| 17 | | 42.7 | 21 S | 78.3 |
| 18 | 10.0 | 86.8 | 18 S | 66.5 |
| 19 | 8.0 | 85.6 | 16 S | 76.8 |
| 20 | 11.0 | 46.5 | 13 S | 54.5 |
| 21 | 13.0 | 47.2 | 13 S | 53.1 |
| 22 | 13.0 | 47.0 | 15 S | 60.8 |
| 23 | 13.0 | 36.9 | 16 S | 53.6 |
| 24 | 13.0 | 47.1 | 18 S | 73.2 |
| 25 | 15.0 | 84.7 | 26 S | 137 |
| 26 | 14.0 | 80.0 | 55 S | 380 |
| 27 | 14.0 | 79.7 | 36 S | 352 |
| 28 | 15.1 | 78.6 | 37 S | 352 |
| 29 | 15.0 | 80.6 | 36 S | 366 |
| 30 | 14.0 | 83.8 | 42 S | 304 |
| 31 | 14.0 | 74.5 | 39 S | 281 |
| TOTAL | | 1 778.0 | | 4 826.6 |
| MEAN | | 57.4 | | 160 |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|
| 1 | 14.0 | 24.5 | 9 S | 19.1 | 1 |
| 2 | 11.0 | 30.7 | 12 S | 31.6 | 2 |
| 3 | 12.0 | 80.0 | 36 S | 187 | 3 |
| 4 | 13.0 | 28.1 | 15 S | 38.6 | 4 |
| 5 | | 22.2 | 13 | 24.5 | 5 |
| 6 | 13.0 | 23.8 | 13 S | 25.8 | 6 |
| 7 | | 23.0 | 13 | 25.6 | 7 |
| 8 | 15.0 | 20.0 | 10 S | 17.3 | 8 |
| 9 | | 21.8 | 9 | 17.0 | 9 |
| 10 | 16.0 | 21.2 | 8 S | 11.0 | 10 |
| 11 | | 20.5 | 5 | 8.80 | 11 |
| 12 | 14.0 | 19.6 | 6 S | 8.85 | 12 |
| 13 | | 18.5 | 8 | 5.04 | 13 |
| 14 | 16.0 | 18.6 | 8 S | 12.9 | 14 |
| 15 | | 18.1 | 8 | 12.5 | 15 |
| 16 | 17.0 | 17.5 | 8 S | 12.1 | 16 |
| 17 | | 17.6 | 7 | 10.6 | 17 |
| 18 | 15.0 | 18.3 | 6 S | 9.49 | 18 |
| 19 | | 18.8 | 7 | 11.4 | 19 |
| 20 | 11.0 | 19.5 | 11 S | 18.5 | 20 |
| 21 | | 19.0 | 9 | 14.8 | 21 |
| 22 | 9.0 | 19.2 | 9 S | 14.8 | 22 |
| 23 | | 19.1 | 10 | 16.5 | 23 |
| 24 | 15.0 | 20.8 | 10 S | 18.0 | 24 |
| 25 | 15.0 | 22.3 | 11 S | 21.2 | 25 |
| 26 | | 22.5 | 11 | 21.5 | 26 |
| 27 | 15.0 | 24.3 | 17 S | 38.7 | 27 |
| 28 | | 22.5 | 13 | 25.6 | 28 |
| 29 | 17.0 | 21.7 | 8 S | 15.0 | 29 |
| 30 | | 23.8 | 15 | 33.8 | 30 |
| 31 | | | | | 31 |
| TOTAL | | 677.5 | | 726.68 | TOTAL |
| MEAN | | 22.6 | | 24.2 | MEAN |

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 24.8 | 19 S | 40.7 | 20.0 | 35.1 A | 6 S | 18.2 | | 28.1 | 3 | 4.88 | 1 |
| 2 | | 23.6 | 14 | 28.4 | | 33.8 A | 6 | 16.8 | 16.0 | 21.0 | 3 S | 3.83 | 2 |
| 3 | 16.0 | 28.5 | 22 S | 84.2 | 20.0 | 33.2 A | 6 S | 11.8 | | 20.7 | 3 | 3.86 | 3 |
| 4 | | 38.9 | 57 | 177 | | 32.3 A | 6 | 11.8 | 16.0 | 20.5 | 3 S | 6.31 | 4 |
| 5 | | 83.9 | 114 | 829 | 20.0 | 33.3 A | 6 S | 11.8 | | 20.0 | 3 | 3.46 | 5 |
| 6 | 17.0 | 90.1 A | 121 S | 942 | | 33.7 A | 6 | 11.0 | 14.0 | 19.9 | 3 S | 3.44 | 6 |
| 7 | | 120 E | 104 | 1 080 | 18.0 | 33.3 A | 6 S | 11.8 | | 19.9 | 3 | 3.44 | 7 |
| 8 | | 155 E | 91 | 1 220 | | 33.8 A | 6 | 11.8 | 12.0 | 20.1 | 6 S | 6.85 | 8 |
| 9 | | 180 E | 78 | 1 080 | 20.0 | 32.6 A | 6 S | 11.2 | | 21.0 | 6 | 7.26 | 9 |
| 10 | | 190 E | 86 | 881 | 21.0 | 31.1 A | 6 S | 10.7 | 14.0 | 20.4 | 3 S | 3.53 | 10 |
| 11 | | 130 E | 57 | 640 | | 26.7 A | 3 | 8.93 | | 19.9 | 3 | 3.44 | 11 |
| 12 | 17.0 | 128 A | 45 S | 490 | | 28.0 | 3 | 8.74 | 15.0 | 19.9 | 3 S | 3.37 | 12 |
| 13 | 17.0 | 98.4 | 33 S | 267 | 20.0 | 25.7 | 3 S | 6.44 | | 19.3 | 3 | 5.00 | 13 |
| 14 | 17.0 | 87.8 | 25 S | 190 | | 25.4 | 3 | 6.58 | 18.0 | 17.2 | 6 S | 5.94 | 14 |
| 15 | 13.5 | 93.4 | 27 S | 218 | 22.0 | 26.3 | 3 S | 6.58 | | 18.7 | 3 | 4.33 | 15 |
| 16 | 17.0 | 102 | 33 S | 291 | | 24.9 | 6 | 10.8 | 8.0 | 18.7 | 3 S | 3.88 | 16 |
| 17 | 18.0 | 105 | 33 S | 300 | | 26.3 | 6 S | 134 | | 18.7 | 3 | 2.71 | 17 |
| 18 | 20.0 | 104 | 17 S | 153 | 19.0 | 29.2 | 33 | 81.0 | 9.0 | 18.2 | 3 S | 2.63 | 18 |
| 19 | 19.0 | 95.9 | 16 S | 132 | 15.0 | 32.7 | 6 S | 17.0 | | 18.1 | 3 | 2.61 | 19 |
| 20 | 19.0 | 88.8 | 16 S | 123 | | 32.1 | 3 | 8.32 | 10.0 | 18.0 | 3 S | 2.76 | 20 |
| 21 | 18.0 | 85.8 | 16 S | 118 | 17.0 | 31.8 | 3 S | 8.19 | | 18.8 | 3 | 4.35 | 21 |
| 22 | 17.0 | 71.7 | 13 S | 74.3 | | 31.9 | 4 | 11.0 | 18.0 | 18.4 | 4 S | 5.87 | 22 |
| 23 | 18.0 | 61.8 | 8 S | 42.8 | 16.0 | 31.9 | 27 S | 74.4 | | 18.9 | 4 | 5.80 | 23 |
| 24 | 19.0 | 65.8 | 10 S | 85.5 | | 31.8 | 16 | 41.0 | 18.0 | 19.2 | 3 S | 4.20 | 24 |
| 25 | 18.0 | 68.8 | 12 S | 88.0 | 18.0 | 31.8 | 6 S | 13.7 | | 17.7 | 4 | 6.12 | 25 |
| 26 | 17.0 | 83.1 | 11 S | 80.0 | | 30.8 | 5 | 13.2 | 18.0 | 17.8 | 6 S | 7.88 | 26 |
| 27 | 18.0 | 70.4 | 12 S | 73.0 | 17.0 | 31.3 | 6 S | 21.8 | | 17.8 | 6 | 9.12 | 27 |
| 28 | 17.0 | 78.3 | 14 S | 84.7 | | 30.8 | 6 | 15.9 | 8.0 | 17.0 | 6 S | 7.34 | 28 |
| 29 | 18.0 | 57.6 | 8 S | 39.7 | 17.0 | 31.1 | 6 S | 10.7 | | 17.0 | 6 | 7.34 | 29 |
| 30 | 18.0 | 38.8 | 4 S | 13.6 | | 30.9 | 3 | 7.78 | 13.0 | 17.1 | 6 S | 8.88 | 30 |
| 31 | 19.0 | 36.6 | 4 S | 12.8 | 19.0 | 29.8 | 3 S | 7.72 | | | | | 31 |
| TOTAL | | 2 977.3 | | 9 500.8 | | 945.3 | | 831.82 | | 852.4 | | 147 33 | TOTAL |
| MEAN | | 83.1 | | 306 | | 30.8 | | 20.4 | | 18.4 | | 4.91 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 19.0 | 6 | 9.31 | | 19.8 | | | | 14.8 B | | | 1 |
| 2 | 11.0 | 20.4 | 6 S | 8.81 | | 18.4 | | | | 15.8 B | | | 2 |
| 3 | | 20.3 | 6 | 8.77 | | 18.7 A | | | | 16.0 B | | | 3 |
| 4 | | 21.3 | 6 | 9.20 | | 16.8 E | | | | 16.3 B | | | 4 |
| 5 | 9.0 | 23.1 | 6 S | 9.88 | | 19.0 E | | | | 16.8 B | | | 5 |
| 6 | 11.0 | 30.4 | 6 S | 15.8 | | 19.2 E | | | | 16.7 B | | | 6 |
| 7 | | 28.0 | 6 | 22.8 | | 19.6 E | | | | 16.8 B | | | 7 |
| 8 | 12.0 | 24.8 | 6 S | 12.8 | | 20.2 A | | | | 17.0 B | | | 8 |
| 9 | | 24.8 | 6 | 10.8 | | 19.8 | | | | 17.0 B | | | 9 |
| 10 | 9.0 | 24.3 | 6 S | 10.8 | | 19.3 | | | | 17.1 B | | | 10 |
| 11 | | 24.8 | 4 | 8.47 | | 19.1 | | | | 17.1 B | | | 11 |
| 12 | 8.0 | 24.8 | 4 S | 8.80 | | 19.5 | | | | 17.2 B | | | 12 |
| 13 | | 25.0 | 3 | 6.48 | | 19.3 | | | | 17.3 B | | | 13 |
| 14 | 8.0 | 25.2 | 3 S | 6.79 | | 19.4 | | | | 17.3 B | | | 14 |
| 15 | | 27.0 | 3 | 7.00 | | 19.5 | | | | 17.1 B | | | 15 |
| 16 | 10.0 | 28.0 | 3 S | 6.74 | | 19.7 | | | | 17.1 B | | | 16 |
| 17 | | 28.2 | 2 | 4.83 | | 19.7 | | | | 17.0 B | | | 17 |
| 18 | 7.0 | 26.5 | 3 S | 4.88 | | 19.8 | | | | 16.6 B | | | 18 |
| 19 | | 22.8 | 3 | 5.86 | | 19.8 | | | | 16.7 B | | | 19 |
| 20 | 7.0 | 28.0 | 4 S | 9.88 | | 20.0 | | | | 16.7 B | | | 20 |
| 21 | | 27.1 | 4 | 9.37 | | 19.8 | | | | 16.8 B | | | 21 |
| 22 | 7.0 | 24.2 | 4 S | 8.40 | | 19.5 | | | | 16.7 B | | | 22 |
| 23 | | 25.5 | 4 | 8.81 | | 19.2 B | | | | 16.0 B | | | 23 |
| 24 | 8.0 | 24.6 | 3 S | 8.43 | | 19.0 B | | | | 15.8 B | | | 24 |
| 25 | | 20.3 | 3 | 5.28 | | 14.9 B | | | | 15.9 B | | | 25 |
| 26 | 8.0 | 19.1 | 4 S | 8.80 | | 13.8 B | | | | 16.0 B | | | 26 |
| 27 | | 18.9 | 4 | 8.53 | | 13.5 B | | | | 16.1 B | | | 27 |
| 28 | 5.0 | 18.3 | 5 S | 8.34 | | 13.5 B | | | | 16.2 B | | | 28 |
| 29 | | 18.8 | 5 | 8.67 | | 13.7 B | | | | 16.3 B | | | 29 |
| 30 | 7.0 | 18.6 | 4 S | 8.63 | | 14.0 B | | | | 16.6 B | | | 30 |
| 31 | | 18.7 | 4 S | 8.61 | | | | | | 16.7 B | | | 31 |
| TOTAL | | 720.8 | | 267.35 | | 548.2 | | | | 513.1 | | | TOTAL |
| MEAN | | 23.5 | | 8.63 | | 18.2 | | | | 16.8 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 905 ON APR 26

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 10 400 ON APR 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 10 36 N
LONG 113 48 57 W
DRAINAGE AREA 11 600 $km^2$
REGULATED FLOW SINCE 1983

- MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED A - SAMPLE(S) COLLECTED THIS DAY

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 27 | 09:00 | 183 H | 4.0 | 736 K | 14 | 18 | 30 | 38 | 50 | 68 | 93 | 99 | 100 | | | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.49 B | | | | 8.80 B | | | | 12.2 B | | | 1 |
| 2 | | 8.78 B | | | | 9.00 B | | | | 11.7 B | | | 2 |
| 3 | | 8.98 B | | | | 9.40 B | | | | 11.7 B | | | 3 |
| 4 | | 9.17 B | | | | 9.80 B | | | | 12.6 B | | | 4 |
| 5 | | 9.12 B | | | | 9.70 B | | | | 12.7 B | | | 5 |
| 6 | | 8.74 B | | | | 9.90 B | | | | 12.6 B | | | 6 |
| 7 | | 8.62 B | | | | 10.0 B | | | | 12.6 B | | | 7 |
| 8 | | 7.27 B | | | | 10.2 B | | | | 12.6 B | | | 8 |
| 9 | | 6.68 B | | | | 10.4 B | | | | 12.2 B | | | 9 |
| 10 | | 7.61 B | | | | 10.5 B | | | | 13.3 B | | | 10 |
| 11 | | 7.33 B | | | | 10.6 B | | | | 15.3 B | | | 11 |
| 12 | | 7.16 B | | | | 10.7 B | | | | 19.4 B | | | 12 |
| 13 | | 7.08 B | | | | 10.8 B | | | | 25.8 B | | | 13 |
| 14 | | 7.02 B | | | | 10.9 B | | | | 30.5 B | | | 14 |
| 15 | | 7.13 B | | | | 11.0 B | | | | 33.1 B | | | 15 |
| 16 | | 7.22 B | | | | 11.2 B | | | | 34.4 B | | | 16 |
| 17 | | 7.31 B | | | | 14.6 B | | | | 35.2 B | | | 17 |
| 18 | | 7.45 B | | | | 14.0 B | | | | 36.4 B | | | 18 |
| 19 | | 7.41 B | | | | 13.6 B | | | | 36.6 B | | | 19 |
| 20 | | 7.50 B | | | | 16.3 B | | | | 36.1 B | | | 20 |
| 21 | | 7.51 B | | | | 13.3 B | | | | 36.7 B | | | 21 |
| 22 | | 7.30 B | | | | 11.4 B | | | | 38.0 B | | | 22 |
| 23 | | 7.28 B | | | | 11.2 B | | | | 38.8 B | | | 23 |
| 24 | | 7.53 B | | | | 11.1 B | | | | 39.4 B | | | 24 |
| 25 | | 7.45 B | | | | 11.4 B | | | | 39.0 B | | | 25 |
| 26 | | 7.36 B | | | | 11.5 B | | | | 40.8 B | | | 26 |
| 27 | | 7.35 B | | | | 12.3 B | | | | 42.6 B | | | 27 |
| 28 | | 7.43 B | | | | 12.2 B | | | | 44.2 B | | | 28 |
| 29 | | 7.80 B | | | | | | | 4.0 | 43.5 B | 820 S | 2 330 | 29 |
| 30 | | 8.10 B | | | | | | | | 42.5 B | | | 30 |
| 31 | | 8.45 B | | | | | | | 5.0 | 42.3 B | 198 S | 718 | 31 |
| TOTAL | | 239.44 | | | | 314.90 | | | | 877.2 | | | TOTAL |
| MEAN | | 7.72 | | | | 11.2 | | | | 28.3 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 43.8 | 198 | 748 | 13.0 | 139 | 1 860 S | 22 300 | | 87.8 | 221 | 1 880 | 1 |
| 2 | 7.0 | 46.4 | 227 S | 880 | 13.0 | 141 | 788 S | 9 330 | | 87.8 | 211 | 1 800 | 2 |
| 3 | | 41.1 | 227 | 805 | 14.0 | 114 | 450 S | 4 420 | | 88.6 | 211 | 1 810 | 3 |
| 4 | 8.0 | 41.2 | 188 S | 705 | 14.0 | 93.5 | 362 S | 2 920 | | 93.8 | 215 | 1 740 | 4 |
| 5 | | 57.7 | 385 | 1 920 | 15.0 | 81.7 | 273 S | 1 930 | | 90.1 | 203 | 1 580 | 5 |
| 6 | 10.0 | 88.5 | 528 S | 3 120 | | 76.4 | 246 | | 20.0 | 70.7 | 138 S | 831 | 6 |
| 7 | 9.0 | 136 | 1 740 S | 20 400 | 15.0 | 72.8 | 263 S | 1 840 | 19.0 | 67.0 | 155 S | 783 | 7 |
| 8 | 4.0 | 150 | 847 S | 8 390 | | 69.0 | 234 | 1 580 | | 64.8 | 193 | 1 080 | 8 |
| 9 | 3.0 | 141 | 1 440 S | 17 500 | 9.0 | 63.8 | 183 S | 1 400 | 22.0 | 67.3 | 155 S | 901 | 9 |
| 10 | 3.0 | 144 | 1 060 S | 13 200 | | 61.6 | 142 | 1 010 | | 61.8 | 74 | 329 | 10 |
| 11 | 3.0 | 121 | 781 S | 7 850 | 10.0 | 62.4 | 129 S | 788 | | 45.8 | 34 | 135 | 11 |
| 12 | 5.0 | 106 | 584 S | 5 170 | | 60.8 | 126 | 882 | | 42.8 | 31 | 115 | 12 |
| 13 | 6.0 | 102 | 502 S | 4 420 | 12.0 | 64.1 | 137 S | 788 | | 40.8 | 29 | 102 | 13 |
| 14 | 7.0 | 93.2 | 424 S | 3 410 | | 68.0 | 195 | 1 150 | | 38.3 | 30 | 88.2 | 14 |
| 15 | 8.0 | 83.0 | 358 S | 2 870 | 15.0 | 67.9 | 270 S | 1 580 | | 39.7 | 26 | 82.4 | 15 |
| 16 | 10.0 | 73.6 | 288 S | 1 880 | | 66.2 | 221 | 1 300 | | 36.1 | 29 | 90.5 | 16 |
| 17 | | 66.2 | 192 | 1 100 | 17.0 | 63.6 | 126 S | 695 | | 34.4 | 32 | 95.1 | 17 |
| 18 | 14.0 | 61.3 | 136 S | 720 | | 59.2 | 97 | 496 | | 34.3 | 34 | 113 | 18 |
| 19 | 15.0 | 58.7 | 119 S | 604 | 15.0 | 58.3 | 92 S | 448 | | 34.3 | 41 | 240 | 19 |
| 20 | | 58.3 | 104 | 526 | | 62.7 | 84 | 382 | 17.0 | 34.8 | 244 S | 738 | 20 |
| 21 | 15.0 | 54.2 | 85 S | 448 | | 90.6 | 74 | 324 | 18.0 | 38.2 | 420 S | 1 310 | 21 |
| 22 | | 51.6 | 82 | 367 | | 88.2 | 88 | 478 | | 38.7 | 283 | 834 | 22 |
| 23 | 17.0 | 50.2 | 70 S | 304 | | 80.4 | 115 | 800 | 24.0 | 37.6 | 130 S | 422 | 23 |
| 24 | | 48.9 | 59 | 248 | | 85.3 | 117 | 860 | | 38.1 | 188 | 845 | 24 |
| 25 | 17.0 | 48.7 | 67 S | 282 | | 83.9 | 111 | 813 | 22.0 | 38.6 | 427 S | 1 470 | 25 |
| 26 | | 50.3 | 140 | 606 | | 88.6 | 88 | 505 | | | | | 26 |
| 27 | 16.0 | 53.5 | 637 S | 2 940 | | 87.4 | 88 | 427 | | 40.5 | 444 | 1 550 | 27 |
| 28 | | 50.7 | 333 | 1 460 | | 86.8 | 78 | 385 | 20.0 | 38.8 | 417 S | 1 400 | 28 |
| 29 | 11.0 | 48.9 | 278 S | 1 170 | | 85.5 | 76 | 374 | | 41.8 | 500 | 1 810 | 29 |
| 30 | | 59.4 | 451 | 2 310 | | 80.9 | 112 | 585 | 23.0 | 53.6 | 629 S | 2 920 | 30 |
| 31 | | | | | | 80.7 | 230 | 1 800 | | 54.9 | 853 | 4 070 | 31 |
| TOTAL | | 2 306.5 | | 105 962 | | 2 203.1 | | 62 027 | | 1 885.0 | | 30 221.2 | TOTAL |
| MEAN | | 73.6 | | 3 530 | | 71.1 | | 2 000 | | 61.8 | | 1 010 | MEAN |

ALBERTA

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20.0 | 51.8 | 1 330 S | 5 950 | | 70.0 | 189 | 1 200 | | | | | 1 |
| 2 | | 50.4 | 1 110 | 4 830 | | 76.1 | 187 S | 1 230 | 18.0 | 35.3 | 208 S | 633 | 2 |
| 3 | 19.0 | 58.8 | 894 S | 4 380 | 27.0 | 85.5 | 165 S | 858 | | 34.8 | 174 | 523 | 3 |
| 4 | 21.0 | 70.3 | 1 370 S | 8 320 | | 86.8 | 130 | 968 | 17.0 | 33.7 | 111 S | 323 | 4 |
| 5 | 24.0 | 84.1 | 3 340 S | 18 800 | 26.0 | 81.9 | 98 S | 438 | | 32.6 | 102 | 287 | 5 |
| 6 | 23.0 | 74.8 | 2 280 S | 14 500 | | 48.2 | 84 | 387 | 15.0 | 32.9 | 108 S | 301 | 6 |
| 7 | | 70.5 | 1 800 | 11 000 | 20.0 | 47.7 | 74 S | 306 | | 33.4 | 87 | 251 | 7 |
| 8 | | 61.6 | 1 710 | 9 130 | | 46.9 | 82 | 335 | 12.0 | 31.0 | 69 S | 185 | 8 |
| 9 | | 56.6 | 1 740 | 9 680 | 26.0 | 45.1 | 105 S | 405 | | 28.9 | 87 | 187 | 9 |
| 10 | | 63.9 | 2 030 | 14 700 | | 46.5 | 116 | 458 | 10.0 | 28.5 | 86 S | 183 | 10 |
| 11 | 22.0 | 152 | 2 110 S | 27 700 | 23.0 | 48.2 | 120 S | 478 | | 28.3 | 63 | 154 | 11 |
| 12 | 20.0 | 170 | 2 680 S | 42 300 | | 48.3 | 112 | 466 | 15.0 | 27.5 | 61 S | 145 | 12 |
| 13 | 19.0 | 177 | 1 780 S | 28 800 | 24.0 | 48.0 | 103 S | 405 | 15.0 | 27.1 | 63 S | 148 | 13 |
| 14 | 20.0 | 165 | 1 010 S | 14 400 | | 48.4 | 128 | 551 | 13.0 | 26.9 | 60 S | 139 | 14 |
| 15 | 20.0 | 152 | 718 S | 9 400 | 23.0 | 47.7 | 138 S | 569 | | 27.3 | 61 | 144 | 15 |
| 16 | | 132 | 895 | 7 930 | | 50.0 E | 182 | 700 | 15.0 | 26.8 | 59 S | 138 | 16 |
| 17 | | 114 | 887 | 8 540 | 25.0 | 41.0 E | 147 S | 521 | | 25.5 | 56 | 128 | 17 |
| 18 | 22.0 | 102 | 1 080 S | 9 810 | | 38.0 E | 171 | 532 | 12.0 | 26.2 | 52 S | 118 | 18 |
| 19 | 25.0 | 87.6 | 880 S | 6 880 | 26.0 | 36.0 E | 191 S | 581 | | 26.0 | 48 | 110 | 19 |
| 20 | 22.0 | 104 E | 429 S | 3 850 | | 34.0 E | 178 | 526 | 10.0 | 26.0 | 49 S | 110 | 20 |
| 21 | 20.0 | 109 A | 418 S | 3 940 | 25.0 | 34.0 E | 148 S | 435 | | 25.9 | 51 | 114 | 21 |
| 22 | 21.0 | 112 | 394 S | 3 810 | | 34.0 E | 138 | 400 | 12.0 | 25.1 | 53 S | 115 | 22 |
| 23 | 22.0 | 110 | 362 S | 3 440 | 21.0 | 34.0 E | 134 S | 384 | | 25.4 | 53 | 116 | 23 |
| 24 | 24.0 | 98.8 | 327 S | 2 820 | | 34.0 E | 156 | 484 | 14.0 | 24.8 | 53 S | 113 | 24 |
| 25 | 25.0 | 83.1 | 332 S | 2 870 | 23.0 | 34.0 E | 224 S | 655 | | 23.8 | 54 | 111 | 25 |
| 26 | | 88.2 | 278 S | 2 100 | | 35.0 E | 233 | 705 | 10.0 | 23.0 | 55 S | 109 | 26 |
| 27 | | 81.7 | 175 S | 1 240 | 22.0 | 35.0 E | 222 S | 671 | | 22.8 | 46 | 86.8 | 27 |
| 28 | | 76.8 | 174 S | 1 150 | | 35.0 E | 190 | 591 | 10.0 | 23.4 | 35 S | 70.8 | 28 |
| 29 | | 74.3 | 168 S | 1 070 | | 35.0 E | 151 | 470 | | 23.3 | 33 | 66.4 | 29 |
| 30 | | 70.7 | 178 S | 1 090 | 20.0 | 35.1 A | 134 S | 453 | 5.0 | 23.1 | 32 S | 63.9 | 30 |
| 31 | | 67.4 | 168 | 1 080 | 24.0 | 37.9 | 151 S | 494 | | | | | 31 |
| TOTAL | | 2 988.4 | | 281 140 | | 1 376.1 | | 17 216 | | 835.4 | | 5 898.7 | TOTAL |
| MEAN | | 96.7 | | 9 070 | | 44.4 | | 555 | | 27.8 | | 190 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 33.1 | 32 | 83.9 | | 22.0 | | | | 8.80 B | | | 1 |
| 2 | | 23.0 | 33 | 85.6 | | 20.8 | | | | 8.80 B | | | 2 |
| 3 | 9.0 | 32.5 | 34 S | 88.1 | | 20.7 | | | | 9.00 B | | | 3 |
| 4 | | 22.7 | 41 | 80.4 | | 20.2 | | | | 9.20 B | | | 4 |
| 5 | 7.0 | 23.3 | 64 S | 105 | | 19.5 | | | | 9.80 B | | | 5 |
| 6 | | 33.5 | 62 | 126 | | 19.1 | | | | 10.1 B | | | 6 |
| 7 | 8.0 | 33.9 | 61 S | 128 | | 19.2 | | | | 10.3 B | | | 7 |
| 8 | | 28.0 | 61 | 110 | | 19.2 | | | | 10.5 B | | | 8 |
| 9 | | 26.7 | 38 | 83.0 | | 18.5 | | | | 10.7 B | | | 9 |
| 10 | | 26.2 | 31 | 70.2 | | 17.6 B | | | | 11.0 B | | | 10 |
| 11 | 8.0 | 26.6 | 30 S | 68.9 | | 17.3 B | | | | 11.1 B | | | 11 |
| 12 | | 30.0 | 31 | 80.4 | | 19.2 B | | | | 11.4 B | | | 12 |
| 13 | | 39.4 | 35 | 119 | | 18.8 B | | | | 11.8 B | | | 13 |
| 14 | 10.0 | 32.8 | 53 S | 149 | | 18.4 B | | | | 11.9 B | | | 14 |
| 15 | 10.0 | 31.7 | 70 S | 192 | | 18.7 B | | | | 12.2 B | | | 15 |
| 16 | | 31.1 | 38 | 102 | | 18.7 B | | | | 12.0 B | | | 16 |
| 17 | 8.0 | 31.2 | 21 S | 84.7 | | 18.5 B | | | | 11.8 B | | | 17 |
| 18 | | 32.0 | 66 | 155 | | 18.6 B | | | | 11.4 B | | | 18 |
| 19 | 8.0 | 33.0 | 88 S | 251 | | 14.7 B | | | | 11.3 B | | | 19 |
| 20 | | 33.5 | 52 | 151 | | 14.7 B | | | | 11.8 B | | | 20 |
| 21 | | 33.5 | 23 | 98.8 | | 18.2 B | | | | 11.7 B | | | 21 |
| 22 | 8.0 | 31.7 | 16 S | 49.3 | | 18.2 B | | | | 11.7 B | | | 22 |
| 23 | | 30.2 | 32 | 83.5 | | 18.0 B | | | | 11.7 B | | | 23 |
| 24 | 5.0 | 28.0 | 54 S | 135 | | 14.2 B | | | | 11.4 B | | | 24 |
| 25 | | 28.5 | 70 | 172 | | 13.8 B | | | | 11.3 B | | | 25 |
| 26 | 9.0 | 28.0 E | 78 S | 184 | | 13.2 B | | | | 11.4 B | | | 26 |
| 27 | | 27.5 E | 48 | 116 | | 13.4 B | | | | 11.4 B | | | 27 |
| 28 | 5.0 | 26.0 E | 26 S | 58.3 | | 12.3 B | | | | 11.6 B | | | 28 |
| 29 | | 25.5 E | 19 | 42.0 | | 10.8 B | | | | 12.1 B | | | 29 |
| 30 | | 24.5 E | 17 | 36.4 | | 8.77 B | | | | 12.5 B | | | 30 |
| 31 | 9.0 | 24.2 A | 16 S | 33.5 | | | | | | 12.8 B | | | 31 |
| TOTAL | | 870.0 | | 3 208.7 | | 561.37 | | | | 343.80 | | | TOTAL |
| MEAN | | 28.1 | | 103 | | 18.7 | | | | 11.1 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 3 340 ON JUL 05

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 42 300 ON JUL 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 04 10 N
LONG 110 17 50 W
DRAINAGE AREA 46 700 $km^2$
REGULATED FLOW SINCE 1968

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 07 | 17:00 | 88.5 | M | 9.0 | 3 440 | K | 12 | 17 | 25 | 38 | 52 | 62 | 69 | 76 | 82 | 89 | | BNW |
| APR 12 | 15:00 | 106 | M | 5.0 | 530 | K | 21 | 27 | 53 | 67 | 76 | 81 | 89 | 97 | 98 | 100 | | BNW |
| MAY 01 | 16:00 | 139 | M | 13.0 | 1 780 | K | 13 | 22 | 35 | 50 | 65 | 73 | 79 | 92 | 96 | 98 | | BNW |
| JUL 01 | 16:00 | 51.8 | M | 20.0 | 1 680 | K | 70 | 87 | 93 | 95 | 97 | 99 | 100 | | | | | BNW |
| JUL 01 | 16:01 | 51.8 | M | 20.0 | 1 880 | K | 88 | 91 | 91 | 95 | 97 | 98 | 99 | 100 | | | | BNW |
| JUL 03 | 16:00 | 58.8 | M | 19.0 | 898 | K | 86 | 73 | 83 | 90 | 93 | 94 | 98 | 99 | 100 | | | BNW |
| JUL 03 | 16:01 | 58.8 | M | 19.0 | 934 | K | 83 | 89 | 83 | 89 | 92 | 94 | 96 | 98 | 100 | | | BNW |
| JUL 04 | 17:00 | 70.3 | | 21.0 | 1 470 | K | 86 | 74 | 84 | 92 | 95 | 97 | 98 | 98 | 100 | | | BNW |
| JUL 04 | 17:01 | 70.3 | | 21.0 | 1 520 | K | 89 | 89 | 78 | 89 | 93 | 94 | 96 | 99 | 100 | | | BNW |
| JUL 05 | 18:00 | 84.1 | M | 24.5 | 4 380 | K | 77 | 85 | 94 | 97 | 98 | 98 | 99 | 100 | | | | BNW |
| JUL 05 | 18:01 | 84.1 | M | 24.5 | 4 350 | K | 77 | 83 | 95 | 98 | 98 | 99 | 100 | | | | | BNW |
| JUL 06 | 11:00 | 74.6 | M | 23.0 | 2 080 | K | 84 | 70 | 82 | 91 | 95 | 98 | 98 | 100 | | | | BNW |
| JUL 06 | 11:01 | 74.6 | M | 23.0 | 2 080 | K | 82 | 70 | 81 | 94 | 96 | 97 | 97 | 99 | 100 | | | BNW |
| JUL 11 | 18:00 | 152 | M | 22.0 | 2 200 | K | 21 | 28 | 37 | 55 | 69 | 78 | 81 | 90 | 94 | 96 | | BNW |
| JUL 11 | 18:01 | 152 | M | 22.0 | 2 120 | K | 18 | 25 | 35 | 56 | 71 | 80 | 85 | 91 | 95 | 97 | | BNW |
| JUL 12 | 07:00 | 170 | M | 20.0 | 2 860 | K | 37 | 48 | 58 | 75 | 85 | 91 | 93 | 96 | 99 | 99 | | BNW |
| JUL 12 | 07:01 | 170 | M | 20.0 | 3 120 | K | 33 | 40 | 54 | 80 | 90 | 95 | 98 | 93 | 97 | 98 | | BNW |
| JUL 13 | 08:00 | 177 | M | 19.0 | 1 950 | K | 22 | 33 | 46 | 64 | 78 | 87 | 90 | 95 | 98 | 99 | | BNW |
| JUL 14 | 08:00 | 185 | M | 20.0 | 1 080 | K | 22 | 27 | 38 | 55 | 72 | 81 | 87 | 93 | 96 | 97 | | BNW |
| JUL 14 | 08:01 | 185 | M | 20.0 | 1 100 | K | 18 | 23 | 34 | 49 | 64 | 75 | 82 | 90 | 94 | 98 | | BNW |
| JUL 15 | 18:00 | 152 | M | 20.0 | 871 | K | 19 | 25 | 34 | 50 | 67 | 77 | 84 | 92 | 96 | 98 | | BNW |
| JUL 15 | 17:00 | 102 | M | 22.0 | 1 180 | K | 34 | 46 | 61 | 85 | 90 | 93 | 97 | 99 | 100 | | | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ALBERTA

BLAVE RIVER AT FITZGERALD - STATION NO. 07KB001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 310 B | | | | 1 720 B | | | | 1 400 B | | | 1 |
| 2 | | 2 340 B | | | | 1 740 B | | | | 1 400 B | | | 2 |
| 3 | | 2 340 B | | | | 1 740 B | | | | 1 370 B | | | 3 |
| 4 | | 2 350 B | | | | 1 720 B | | | | 1 380 B | | | 4 |
| 5 | | 2 340 B | | | | 1 880 B | | | | 1 380 B | | | 5 |
| 6 | | 2 340 B | | | | 1 810 B | | | | 1 380 B | | | 6 |
| 7 | | 2 350 B | | | | 1 840 B | | | | 1 380 B | | | 7 |
| 8 | | 2 320 B | | | | 1 830 B | | | | 1 370 B | | | 8 |
| 9 | | 2 320 B | | | | 1 830 B | | | | 1 370 B | | | 9 |
| 10 | | 2 320 B | | | | 1 810 B | | | | 1 370 B | | | 10 |
| 11 | | 2 330 B | | | | 1 800 B | | | | 1 330 B | | | 11 |
| 12 | | 2 320 B | | | | 1 770 B | | | | 1 320 B | | | 12 |
| 13 | | 2 280 B | | | | 1 750 B | | | | 1 310 B | | | 13 |
| 14 | | 2 280 B | | | | 1 700 B | | | | 1 300 B | | | 14 |
| 15 | | 2 210 B | | | | 1 850 B | | | | 1 240 B | | | 15 |
| 16 | | 2 180 B | | | | 1 840 B | | | | 1 240 B | | | 16 |
| 17 | | 2 230 B | | | | 1 820 B | | | | 1 220 B | | | 17 |
| 18 | | 2 230 B | | | | 1 810 B | | | | 1 220 B | | | 18 |
| 19 | | 2 190 B | | | | 1 800 B | | | | 1 220 B | | | 19 |
| 20 | | 2 180 B | | | | 1 800 B | | | | 1 230 B | | | 20 |
| 21 | | 2 180 B | | | | 1 880 B | | | | 1 220 B | | | 21 |
| 22 | | 2 190 B | | | | 1 850 B | | | | 1 220 B | | | 22 |
| 23 | | 2 010 B | | | | 1 820 B | | | | 1 220 B | | | 23 |
| 24 | | 1 900 B | | | | 1 480 B | | | | 1 220 B | | | 24 |
| 25 | | 1 750 B | | | | 1 390 B | | | | 1 230 B | | | 25 |
| 26 | | 1 840 B | | | | 1 380 B | | | | 1 230 B | | | 26 |
| 27 | | 1 700 B | | | | 1 400 B | | | | 1 230 B | | | 27 |
| 28 | | 1 890 B | | | | 1 400 B | | | | 1 230 B | | | 28 |
| 29 | | 1 870 B | | | | | | | | 1 230 B | | | 29 |
| 30 | | 1 870 B | | | | | | | | 1 230 B | | | 30 |
| 31 | | 1 730 B | | | | | | | | 1 230 B | | | 31 |
| TOTAL | | 65 850 | | | | 46 140 | | | | 39 900 | | | TOTAL |
| MEAN | | 2 120 | | | | 1 650 | | | | 1 280 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 230 B | | | | 3 620 B | | | 13.0 | 4 470 E | 276 S | 107 000 | 1 |
| 2 | | 1 210 B | | | | 3 770 B | | | 14.0 | 4 480 E | 281 S | 109 000 | 2 |
| 3 | | 1 200 B | | | | 3 680 B | | | 13.0 | 4 440 E | 279 S | 107 000 | 3 |
| 4 | | 1 200 B | | | | 3 640 B | | | 12.0 | 4 380 E | 263 S | 98 800 | 4 |
| 5 | | 1 200 B | | | | 3 600 B | | | 12.0 | 4 240 E | 286 S | 97 400 | 5 |
| 6 | | 1 200 B | | | | 3 520 B | | | 12.0 | 4 190 E | 288 S | 106 000 | 6 |
| 7 | | 1 200 B | | | | 3 480 B | | | 12.0 | 4 280 E | 225 S | 82 800 | 7 |
| 8 | | 1 200 B | | | | 3 540 B | | | 12.0 | 4 400 E | 194 S | 73 800 | 8 |
| 9 | | 1 210 B | | | | 3 490 B | | | 13.0 | 4 420 E | 186 S | 71 800 | 9 |
| 10 | | 1 200 B | | | | 3 680 B | | | 13.0 | 4 270 E | 179 S | 88 000 | 10 |
| 11 | | 1 200 B | | | | 3 700 B | | | 13.0 | 3 980 E | 186 S | 84 300 | 11 |
| 12 | | 1 200 B | | | | 3 780 B | | | 12.0 | 3 840 E | 143 S | 48 000 | 12 |
| 13 | | 1 200 B | | | | 3 800 B | | | 13.0 | 3 380 E | 184 S | 45 000 | 13 |
| 14 | | 1 200 B | | | | 3 880 E | | | 13.0 | 3 310 E | 181 S | 48 000 | 14 |
| 15 | | 1 190 B | | | | 3 640 E | | | 15.0 | 3 280 A | 181 S | 45 300 | 15 |
| 16 | | 1 210 B | | | | 3 470 A | | | 15.0 | 3 280 | 188 S | 47 300 | 16 |
| 17 | | 1 240 B | | | | 3 810 | | | 15.0 | 3 250 | 157 S | 44 100 | 17 |
| 18 | | 1 250 B | | | | 3 880 | | | 17.0 | 3 270 | 138 S | 39 800 | 18 |
| 19 | | 1 280 B | | | | 3 880 | | | 18.0 | 3 480 | 128 S | 38 500 | 19 |
| 20 | | 1 310 B | | | 8.0 | 4 030 | 446 S | 155 000 | 16.0 | 3 840 | 121 S | 38 100 | 20 |
| 21 | | 1 330 B | | | 8.0 | 4 020 | 471 S | 164 000 | 17.0 | 3 870 | 112 S | 35 800 | 21 |
| 22 | | 1 380 B | | | 12.0 | 3 880 | 537 S | 185 000 | 18.0 | 3 870 | 112 S | 34 800 | 22 |
| 23 | | 1 480 B | | | | 3 870 | 540 | 185 000 | 18.0 | 3 480 | 84 S | 26 100 | 23 |
| 24 | | 1 870 B | | | 8.0 | 4 010 | 518 S | 178 000 | 18.0 | 3 350 | 98 S | 28 400 | 24 |
| 25 | | 1 740 B | | | 8.0 | 4 080 | 481 S | 170 000 | 17.0 | 3 380 | 84 S | 27 800 | 25 |
| 26 | | 1 870 B | | | 8.0 | 4 110 | 403 S | 143 000 | 18.0 | 3 850 | 105 S | 33 100 | 26 |
| 27 | | 2 280 B | | | 8.0 | 4 080 | 382 S | 127 000 | 18.0 | 4 070 | 122 S | 42 800 | 27 |
| 28 | | 2 820 B | | | 8.0 | 4 150 | 327 S | 117 000 | 18.0 | 4 680 | 214 S | 86 200 | 28 |
| 29 | | 2 850 B | | | 11.0 | 4 270 | 380 S | 103 000 | 20.0 | 4 890 | 382 S | 153 000 | 29 |
| 30 | | 3 640 B | | | 12.0 | 4 360 E | 281 S | 106 000 | 20.0 | 4 880 | 535 S | 226 000 | 30 |
| 31 | | | | | 13.0 | 4 400 E | 388 S | 102 000 | | | | | 31 |
| TOTAL | | 45 200 | | | | 118 830 | | | | 117 670 | | 2 080 000 | TOTAL |
| MEAN | | 1 510 | | | | 3 830 | | | | 3 920 | | 68 700 | MEAN |

SLAVE RIVER AT FITZGERALD - STATION NO. 07RB001

SUSPENDED SEDIMENT FOR 1982

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20.0 | 4 840 | 1 080 S | 448 000 | 20.0 | 5 780 | 891 S | 443 000 | 17.0 | 3 830 | 97 S | 32 100 | 1 |
| 2 | 19.0 | 5 010 | 1 280 S | 554 000 | 20.0 | 5 830 | 844 S | 426 000 | 16.0 | 3 850 | 72 S | 24 000 | 2 |
| 3 | 19.0 | 5 080 | 1 500 S | 660 000 | 20.0 | 6 180 | 716 S | 381 000 | 16.0 | 3 880 | 69 S | 23 100 | 3 |
| 4 | 18.0 | 5 150 | 1 280 S | 570 000 | 19.0 | 6 080 | 636 S | 334 000 | 17.0 | 3 800 | 72 S | 23 600 | 4 |
| 5 | 19.0 | 4 980 | 915 S | 394 000 | 19.0 | 5 940 | 678 S | 347 000 | 17.0 | 3 710 | 77 S | 24 700 | 5 |
| 6 | 18.0 | 4 810 | 1 050 S | 438 000 | 20.0 | 5 900 | 1 220 S | 622 000 | 17.0 | 3 700 | 77 S | 24 800 | 6 |
| 7 | 18.0 | 4 880 | 1 470 S | 594 000 | 20.0 | 5 720 | 1 500 S | 741 000 | 17.0 | 3 700 | 68 S | 21 700 | 7 |
| 8 | 18.0 | 4 740 | 1 240 S | 508 000 | 19.0 | 5 680 | 1 230 S | 604 000 | 18.0 | 3 710 | 62 S | 19 800 | 8 |
| 9 | 19.0 | 4 780 | 1 120 S | 483 000 | 17.0 | 5 810 | 862 S | 521 000 | 18.0 | 3 690 | 53 S | 16 400 | 9 |
| 10 | 19.0 | 4 790 | 788 S | 313 000 | 17.0 | 5 930 | 817 S | 295 000 | 14.0 | 3 670 | 55 S | 17 000 | 10 |
| 11 | 20.0 | 4 980 | 584 S | 242 000 | 18.0 | 5 450 | 528 S | 248 000 | 14.0 | 3 680 | 62 S | 19 800 | 11 |
| 12 | 19.0 | 5 250 | 612 S | 278 000 | 18.0 | 5 370 | 470 S | 218 000 | 14.0 | 3 780 | 60 S | 19 800 | 12 |
| 13 | 19.0 | 5 530 | 779 S | 372 000 | 18.0 | 5 080 | 387 S | 174 000 | 14.0 | 3 830 | 55 S | 18 200 | 13 |
| 14 | 18.0 | 5 760 | 983 S | 484 000 | 18.0 | 4 880 | 350 S | 148 000 | 13.0 | 3 880 | 52 S | 17 300 | 14 |
| 15 | 18.0 | 6 120 | 1 150 S | 608 000 | 19.0 | 4 880 | 287 S | 125 000 | 12.0 | 3 880 | 53 S | 17 800 | 15 |
| 16 | 18.0 | 5 870 | 1 120 S | 570 000 | 18.0 | 4 700 | 252 S | 102 000 | 11.0 | 3 820 | 78 S | 25 100 | 16 |
| 17 | 18.0 | 5 820 | 1 100 S | 553 000 | 17.0 | 4 510 | 216 S | 84 200 | 10.0 | 3 820 | 105 S | 34 700 | 17 |
| 18 | 18.0 | 5 850 | 1 230 S | 600 000 | 17.0 | 4 320 | 201 S | 75 000 | 9.0 | 3 800 | 107 S | 35 100 | 18 |
| 19 | 17.0 | 5 810 | 1 100 S | 533 000 | 17.0 | 4 180 | 187 S | 67 700 | 8.0 | 3 810 | 121 S | 39 800 | 19 |
| 20 | 18.0 | 5 810 | 878 S | 425 000 | 17.0 | 4 080 | 185 S | 57 900 | 8.0 | 3 800 | 92 S | 30 200 | 20 |
| 21 | 19.0 | 5 880 | 695 S | 352 000 | 18.0 | 3 830 | 143 S | 47 300 | 7.0 | 3 780 | 78 S | 25 900 | 21 |
| 22 | 18.0 | 5 180 | 628 S | 334 000 | 18.0 | 3 710 | 144 S | 46 200 | 7.0 | 3 780 | 80 S | 26 100 | 22 |
| 23 | 18.0 | 5 260 | 747 S | 404 000 | 18.0 | 3 840 | 189 S | 83 100 | 8.0 | 3 780 | 83 S | 27 100 | 23 |
| 24 | 18.0 | 5 250 | 1 200 S | 648 000 | | 3 840 | 163 | 51 300 | 8.0 | 3 780 | 83 S | 20 400 | 24 |
| 25 | 18.0 | 5 190 | 1 310 S | 701 000 | 18.0 | 3 810 | 125 S | 39 000 | 8.0 | 3 770 | 73 S | 23 800 | 25 |
| 26 | 18.0 | 5 080 | 1 520 S | 798 000 | 18.0 | 3 880 | 101 S | 31 100 | 7.0 | 3 810 | 88 S | 22 400 | 26 |
| 27 | 18.0 | 5 070 | 1 320 S | 681 000 | 18.0 | 3 800 | 92 S | 28 800 | 7.0 | 3 770 | 92 S | 30 000 | 27 |
| 28 | 20.0 | 5 780 | 1 020 S | 510 000 | 18.0 | 3 820 | 85 S | 26 800 | 6.0 | 3 880 | 77 S | 23 800 | 28 |
| 29 | 20.0 | 5 880 | 748 S | 366 000 | 18.0 | 3 870 | 82 S | 26 000 | 5.0 | 3 890 | 70 S | 21 700 | 29 |
| 30 | 19.0 | 5 870 | 811 S | 294 000 | 18.0 | 3 800 | 80 S | 26 300 | 5.0 | 3 820 | 90 S | 28 100 | 30 |
| 31 | 20.0 | 5 800 | 848 S | 313 000 | 17.0 | 3 870 | 93 S | 31 100 | | | | | 31 |
| TOTAL | | 170 590 | | 15 051 000 | | 146 300 | | 5 230 400 | | 112 570 | | 733 400 | TOTAL |
| MEAN | | 5 500 | | 486 000 | | 4 720 | | 201 000 | | 3 750 | | 24 400 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.0 | 3 830 | 88 S | 27 800 | | 2 840 | | | | 2 410 B | | | 1 |
| 2 | 5.0 | 3 740 | 87 S | 28 100 | | 2 940 | | | | 2 310 B | | | 2 |
| 3 | 5.0 | 3 780 | 88 S | 22 800 | | 3 020 | | | | 2 220 B | | | 3 |
| 4 | 5.0 | 3 870 | 80 S | 26 400 | | 3 100 | | | | 2 150 B | | | 4 |
| 5 | 4.0 | 3 870 | 78 S | 23 400 | | 3 170 | | | | 2 080 B | | | 5 |
| 6 | 4.0 | 3 810 | 85 S | 20 300 | | 3 220 | | | | 1 970 B | | | 6 |
| 7 | 4.0 | 3 880 | 71 S | 22 800 | | 3 210 | | | | 1 910 B | | | 7 |
| 8 | 4.0 | 3 710 | 78 S | 25 300 | | 3 210 | | | | 1 900 B | | | 8 |
| 9 | 4.0 | 3 730 | 72 S | 23 200 | | 3 180 | | | | 1 820 B | | | 9 |
| 10 | 4.0 | 3 830 | 68 S | 17 300 | | 3 120 | | | | 1 780 B | | | 10 |
| 11 | 4.0 | 3 880 | 84 S | 18 700 | | 3 130 | | | | 1 700 B | | | 11 |
| 12 | 4.0 | 3 810 | 84 S | 18 800 | | 3 140 | E | | | 1 880 B | | | 12 |
| 13 | 3.0 | 3 580 | 84 S | 20 300 | | 3 150 | E | | | 1 640 B | | | 13 |
| 14 | 4.6 | 3 580 | 83 S | 18 400 | | 3 110 | E | | | 1 620 B | | | 14 |
| 15 | 3.0 | 3 550 | 88 S | 17 400 | | 3 120 | E | | | 1 880 B | | | 15 |
| 16 | 3.0 | 3 540 | 88 S | 17 700 | | 3 080 | E | | | 1 700 B | | | 16 |
| 17 | 3.0 | 3 540 | 87 S | 17 400 | | 3 000 | E | | | 1 770 B | | | 17 |
| 18 | 3.0 | 3 550 | 80 S | 18 400 | | 2 880 | E | | | 1 800 B | | | 18 |
| 19 | | 3 480 | | | | 2 810 | E | | | 1 880 B | | | 19 |
| 20 | | 3 430 | | | | 2 820 | E | | | 1 890 B | | | 20 |
| 21 | | 3 380 | | | | 2 740 | E | | | 1 880 B | | | 21 |
| 22 | | 3 370 | | | | 2 700 | E | | | 1 810 B | | | 22 |
| 23 | | 3 250 | | | | 2 670 | E | | | 1 900 B | | | 23 |
| 24 | | 3 080 | | | | 2 610 | E | | | 1 800 B | | | 24 |
| 25 | | 3 040 | | | | 2 580 | E | | | 1 880 B | | | 25 |
| 26 | | 3 100 | | | | 2 580 | E | | | 1 880 B | | | 26 |
| 27 | | 3 070 | | | | 2 550 | E | | | 1 880 B | | | 27 |
| 28 | | 3 020 | | | | 2 540 | E | | | 2 020 B | | | 28 |
| 29 | | 2 950 | | | | 2 520 | E | | | 2 000 B | | | 29 |
| 30 | | 2 890 | | | | 2 500 | E | | | 1 890 B | | | 30 |
| 31 | | 2 860 | | | | | | | | 2 040 B | | | 31 |
| TOTAL | | 108 250 | | | | 87 400 | | | | 55 400 | | | TOTAL |
| MEAN | | 3 430 | | | | 2 810 | | | | 1 920 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 52 20 N
LONG 111 35 00 W
DRAINAGE AREA 606 000 km²
REGULATED FLOW SINCE 1968

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 77.0 B | | | | 80.0 B | | | | 88.8 B | 96 S | 752 | 1 |
| 2 | | 76.0 B | | | | 85.0 B | | | | 95.2 B | | | 2 |
| 3 | | 66.5 B | | | | 70.0 B | | | | 95.0 B | | | 3 |
| 4 | | 72.5 B | | | | 75.0 B | | | | 94.5 B | | | 4 |
| 5 | | 76.7 B | | | | 78.8 B | | | | 93.2 B | | | 5 |
| 6 | | 76.2 B | | | | 74.4 B | | | | 87.8 B | | | 6 |
| 7 | | 74.2 B | | | | 74.0 B | | | | 81.7 B | | | 7 |
| 8 | | 69.6 B | | | | 81.7 B | | | | 82.7 B | | | 8 |
| 9 | | 65.4 B | | | | 86.1 B | | | | 88.5 B | | | 9 |
| 10 | | 65.3 B | | | | 84.9 B | | | | 84.1 B | | | 10 |
| 11 | | 57.4 B | | | | 85.5 B | | | | 83.5 B | | | 11 |
| 12 | | 64.1 B | | | | 82.6 B | | | | 85.7 B | | | 12 |
| 13 | | 69.7 B | | | | 72.6 B | | | | 97.5 B | | | 13 |
| 14 | | 72.6 B | | | | 77.0 B | | | | 114 B | | | 14 |
| 15 | | 77.8 B | | | | 81.7 B | | | | 135 B | | | 15 |
| 16 | | 72.8 B | | | | 90.2 B | | | | 165 B | | | 16 |
| 17 | | 72.0 B | | | | 96.1 B | | | | 180 B | | | 17 |
| 18 | | 66.0 B | | | | 101 B | | | | 139 B | | | 18 |
| 19 | | 75.0 B | | | | 102 B | | | | 118 B | | | 19 |
| 20 | | 71.0 B | | | | 87.6 B | | | | 107 B | | | 20 |
| 21 | | 65.0 B | | | | 85.8 B | | | | 118 B | | | 21 |
| 22 | | 70.0 B | | | | 82.2 B | | | | 128 B | | | 22 |
| 23 | | 66.5 B | | | | 83.0 B | | | | 126 B | | | 23 |
| 24 | | 65.0 B | | | | 82.5 B | | | | 118 B | | | 24 |
| 25 | | 75.0 B | | | | 82.3 B | | | | 84.5 F | | | 25 |
| 26 | | 78.3 B | | | | 87.3 B | | | | 86.2 B | | | 26 |
| 27 | | 81.1 B | | | | 87.5 B | | | | 85.2 B | | | 27 |
| 28 | | 85.0 B | | | | 88.5 B | | | | 80.7 B | | | 28 |
| 29 | | 72.0 B | | | | | | | | 81.3 B | | | 29 |
| 30 | | 64.0 B | | | | | | | | 93.1 B | | | 30 |
| 31 | | 66.0 B | | | | | | | | 103 B | | | 31 |
| TOTAL | | 2 207.6 | | | | 2 305.5 | | | | 3 177.2 | | | TOTAL |
| MEAN | | 71.2 | | | | 82.3 | | | | 102 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 100 E | 169 | 1 460 | 9.0 | 200 | 226 S | 3 910 | 15.0 | 377 A | 635 S | 20 700 | 1 |
| 2 | | 117 E | 197 S | 1 990 | | 193 | 220 | 3 670 | 15.0 | 386 | 817 S | 26 000 | 2 |
| 3 | | 136 E | 174 | 2 040 | 8.0 | 194 | 204 S | 3 420 | 15.0 | 387 | 634 S | 21 200 | 3 |
| 4 | | 116 E | 93 | 932 | | 181 | 164 | 2 280 | 15.0 | 389 | 620 S | 21 400 | 4 |
| 5 | | 96.6 E | 40 S | 334 | 11.0 | 134 | 106 S | 1 280 | 15.0 | 356 | 427 S | 13 200 | 5 |
| 6 | | 94.7 E | 36 | 295 | | 111 | 87 | 843 | 15.0 | 337 | 566 S | 16 500 | 6 |
| 7 | | 93.4 E | 37 S | 299 | 10.0 | 88.6 | 42 S | 322 | 15.0 | 309 | 406 S | 10 900 | 7 |
| 8 | | 91.1 E | 36 | 289 | 11.0 | 101 | 57 S | 497 | 14.0 | 286 | 348 S | 8 880 | 8 |
| 9 | | 89.4 E | 39 | 301 | | 107 | 59 | 536 | | 263 | 266 | 6 090 | 9 |
| 10 | | 87.9 E | 39 S | 296 | 8.0 | 109 | 60 S | 565 | 16.0 | 262 | 258 S | 5 830 | 10 |
| 11 | | 92.2 E | 36 | 287 | | 108 | 51 | 476 | | 243 | 225 | 4 720 | 11 |
| 12 | | 90.6 E | 32 S | 251 | 9.0 | 110 | 86 S | 827 | 16.0 | 225 | 196 S | 3 810 | 12 |
| 13 | | 84.1 E | 35 | 254 | | 132 | 95 | 1 090 | | 239 | 182 | 3 300 | 13 |
| 14 | | 94.2 E | 38 S | 309 | 8.0 | 128 | 56 S | 831 | 17.0 | 224 | 183 S | 3 540 | 14 |
| 15 | | 92.2 E | 34 | 271 | 9.0 | 122 | 76 S | 801 | | 237 | 246 | 5 040 | 15 |
| 16 | | 89.8 E | 30 S | 233 | | 120 | 83 | 853 | 16.0 | 230 | 270 S | 5 370 | 16 |
| 17 | | 84.6 E | 26 S | 190 | 11.0 | 113 | 43 S | 420 | | 191 | 110 | 1 820 | 17 |
| 18 | | 80.7 E | 22 | 153 | | 107 | 48 | 444 | 16.0 | 180 | 140 S | 2 300 | 18 |
| 19 | 14.0 | 78.6 A | 18 S | 123 | 13.0 | 105 | 51 S | 463 | 16.0 | 172 E | 202 S | 3 000 | 19 |
| 20 | | 66.7 | 16 | 89.0 | | 96.2 | 34 | 288 | | 162 A | 131 | 1 720 | 20 |
| 21 | 12.0 | 72.6 | 13 S | 81.8 | 12.0 | 95.4 | 20 S | 185 | 17.0 | 129 | 66 S | 736 | 21 |
| 22 | | 72.5 | 15 | 84.0 | 14.0 | 104 | 26 S | 234 | | 137 | 93 | 1 100 | 22 |
| 23 | 13.0 | 69.1 | 14 S | 83.8 | | 117 | 50 | 505 | 16.0 | 133 | 64 S | 735 | 23 |
| 24 | 14.0 | 75.5 | 21 S | 137 | 14.0 | 130 | 44 S | 494 | | 126 | 75 | 816 | 24 |
| 25 | | 73.7 | 170 | 1 080 | | 143 | 52 | 642 | 15.0 | 130 | 76 S | 854 | 25 |
| 26 | 9.0 | 82.7 | 377 S | 2 690 | 17.0 | 146 | 54 S | 681 | 17.0 | 133 | 69 S | 793 | 26 |
| 27 | | 109 | 215 | 2 020 | | 166 | 78 | 1 120 | | 121 | 80 | 827 | 27 |
| 28 | 7.0 | 161 | 131 S | 1 820 | 16.0 | 206 | 123 S | 2 190 | 16.0 | 114 | 52 S | 512 | 28 |
| 29 | | 182 | 255 | 4 010 | 17.0 | 241 | 189 S | 3 940 | | 116 | 78 | 782 | 29 |
| 30 | 9.0 | 236 | 261 S | 5 300 | | 311 | 390 | 10 500 | 20.0 | 111 | 66 S | 627 | 30 |
| 31 | | | | | 16.0 | 316 | 496 S | 13 900 | | | | | 31 |
| TOTAL | | 3 010.7 | | 27 722.4 | | 4 514.2 | | 57 087 | | 6 686 | | 192 352 | TOTAL |
| MEAN | | 100 | | 924 | | 146 | | 1 840 | | 223 | | 6 410 | MEAN |

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 121 | 92 | 962 | | 70.8 | 21 | 128 | 21.0 | 81.4 | 9 S | 40.0 | 1 |
| 2 | 17.0 | 128 | 86 S | 713 | 21.0 | 88.8 | 18 S | 102 | | 48.8 | 9 | 38.2 | 2 |
| 3 | 16.0 | 139 | 382 S | 4 350 | | 87.2 | 14 | 88.2 | 17.0 | 44.4 | 9 S | 34.8 | 3 |
| 4 | | 138 | 280 | 3 340 | 21.0 | 84.2 | 18 S | 70.2 | 16.0 | 44.8 | 8 S | 31.0 | 4 |
| 5 | 18.0 | 123 | 78 S | 787 | | 84.4 | 14 | 88.8 | | 40.8 | 9 | 31.8 | 5 |
| 6 | 24.0 | 121 | 48 S | 802 | 23.0 | 87.1 | 10 S | 48.3 | 13.0 | 41.4 | 10 S | 38.8 | 6 |
| 7 | 20.0 | 134 | 85 S | 984 | 21.0 | 80.0 | 8 S | 34.8 | | 43.2 | 9 | 33.8 | 7 |
| 8 | | 188 | 150 | 2 440 | | 48.7 | 10 | 40.3 | 17.0 | 44.3 | 9 S | 34.4 | 8 |
| 9 | 18.0 | 200 | 153 S | 2 840 | 19.0 | 44.8 E | 7 S | 27.0 | | 44.2 | 12 | 45.8 | 9 |
| 10 | 17.0 | 182 | 118 S | 1 880 | | 47.8 | 8 | 37.0 | 12.0 | 48.0 | 18 S | 68.4 | 10 |
| 11 | | 175 | 105 | 1 590 | 23.0 | 48.5 | 13 S | 54.5 | 12.0 | 48.3 | 22 S | 88.0 | 11 |
| 12 | 18.0 | 158 | 87 S | 1 310 | | 88.1 | 83 | 481 | | 43.1 | 18 | 58.8 | 12 |
| 13 | | 187 | 157 | 2 540 | 17.0 | 84.2 | 188 S | 832 | 13.5 | 45.0 | 8 S | 31.1 | 13 |
| 14 | 18.0 | 183 | 86 S | 1 380 | 20.0 | 89.8 | 53 S | 318 | | 48.3 | 8 | 32.0 | 14 |
| 15 | | 181 | 52 | 723 | | 86.3 | 31 | 178 | 14.0 | 43.8 | 10 S | 37.8 | 15 |
| 16 | 17.0 | 148 | 53 S | 882 | 17.0 | 71.3 | 23 S | 142 | | 43.3 | 10 | 37.4 | 16 |
| 17 | 17.0 | 133 | 37 S | 425 | | 81.5 | 22 | 185 | 10.0 | 40.8 | 10 S | 35.3 | 17 |
| 18 | | 112 | 16 | 174 | 18.0 | 74.2 | 21 S | 135 | 7.0 | 41.2 | 10 S | 35.8 | 18 |
| 19 | 20.0 | 122 | 72 S | 789 | | 72.8 | 20 | 125 | | 38.8 | 8 | 30.0 | 19 |
| 20 | | 144 | 1 100 | 13 700 | 17.0 | 87.8 | 22 S | 128 | 8.0 | 38.1 | 7 S | 21.8 | 20 |
| 21 | 18.0 | 187 | 2 720 S | 43 800 | 19.0 | 73.1 | 20 S | 126 | | 38.8 | 7 | 24.1 | 21 |
| 22 | | 183 | 2 230 | 31 400 | | 82.8 | 14 | 75.8 | 8.0 | 38.0 | 8 S | 20.2 | 22 |
| 23 | 20.0 | 181 | 705 S | 8 200 | 17.0 | 88.0 | 12 S | 70.5 | | 37.0 | 8 | 18.0 | 23 |
| 24 | 19.0 | 132 | 284 S | 3 010 | | 82.8 | 27 | 218 | 11.0 | 36.7 | 8 S | 15.9 | 24 |
| 25 | | 114 | 144 | 1 420 | | 83.8 | 18 | 130 | 12.0 | 38.4 | 4 S | 12.2 | 25 |
| 26 | 18.0 | 93.7 | 88 S | 441 | | 88.8 | 13 | 77.4 | | 33.3 | 7 | 20.1 | 26 |
| 27 | | 85.1 | 34 | 250 | 20.0 | 88.1 | 11 S | 88.2 | 13.0 | 32.1 | 8 S | 25.0 | 27 |
| 28 | 19.0 | 80.3 | 32 S | 222 | 21.0 | 81.7 | 8 S | 60.2 | | 32.3 | 8 | 22.7 | 28 |
| 29 | | 73.4 | 18 | 85.1 | | 48.8 | 10 | 42.0 | 7.0 | 32.8 | 8 S | 22.5 | 29 |
| 30 | 19.0 | 84.1 | 26 S | 188 | 21.0 | 47.2 | 7 S | 36.5 | | 32.8 | 7 | 19.7 | 30 |
| 31 | | 85.8 | 27 | 184 | | 82.0 | 8 | 35.8 | | | | | 31 |
| TOTAL | | 4 201.8 | | 132 128.1 | | 1 927.2 | | 4 141.2 | | 1 224.8 | | 998.2 | TOTAL |
| MEAN | | 136 | | 4 260 | | 82.2 | | 134 | | 40.8 | | 33.2 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.0 | 33.4 | 8 S | 17.3 | | 37.4 | | | | 83.5 B | | | 1 |
| 2 | 7.0 | 33.8 | 9 S | 26.3 | | 39.7 | | | | 85.0 B | | | 2 |
| 3 | | 35.0 | 9 | 27.2 | | 44.2 | | | | 83.5 B | | | 3 |
| 4 | 9.0 | 34.8 | 8 S | 23.8 | | 48.2 | | | | 86.0 B | | | 4 |
| 5 | | 35.3 | 7 | 21.3 | | 42.3 | | | | 86.5 B | | | 5 |
| 6 | 8.0 | 38.7 | 8 S | 18.0 | | 43.2 | | | | 84.5 B | | | 6 |
| 7 | | 36.8 | 12 | 38.3 | | 76.7 | | | | 82.3 B | | | 7 |
| 8 | 8.0 | 36.1 | 18 S | 46.8 | | 85.3 | | | | 85.7 B | | | 8 |
| 9 | 8.0 | 36.7 | 7 S | 21.8 | | 83.8 | | | | 81.2 B | | | 9 |
| 10 | | 36.1 | 8 | 18.7 | | 88.2 | | | | 86.0 B | | | 10 |
| 11 | | 38.4 | 7 | 23.8 | | 77.2 | | | | 83.4 B | | | 11 |
| 12 | | 41.4 | 7 | 26.0 | | 86.7 | | | | 83.3 B | | | 12 |
| 13 | 8.0 | 42.8 | 8 S | 28.4 | | 88.3 | | | | 42.4 B | | | 13 |
| 14 | | 43.1 | 8 | 28.8 | | 84.1 | | | | 37.8 B | | | 14 |
| 15 | 7.0 | 44.3 | 8 S | 30.8 | | 86.7 | | | | 38.7 B | | | 15 |
| 16 | 8.0 | 43.8 | 9 S | 33.9 | | 86.4 | | | | 36.2 B | | | 16 |
| 17 | | 40.4 | 8 | 27.8 | | 85.8 | | | | 34.8 B | | | 17 |
| 18 | | 37.4 | 7 | 22.8 | | 85.2 | | | | 34.8 B | | | 18 |
| 19 | 7.0 | 36.5 | 8 S | 18.9 | | 84.0 | | | | 34.8 B | | | 19 |
| 20 | | 36.0 | 6 | 18.7 | | 87.4 | | | | 34.8 B | | | 20 |
| 21 | | 36.3 | 7 | 21.3 | | 88.8 | | | | 34.8 B | | | 21 |
| 22 | 9.0 | 34.8 | 8 S | 24.1 | | 101 | | | | 34.8 B | | | 22 |
| 23 | | 34.5 | 8 | 23.8 | | 83.5 B | | | | 34.8 B | | | 23 |
| 24 | | 33.9 | 8 | 23.4 | | 83.8 B | | | | 34.8 B | | | 24 |
| 25 | | 34.0 | 8 | 23.8 | | 78.8 B | | | | 34.0 B | | | 25 |
| 26 | 7.0 | 33.4 | 8 S | 23.1 | | 78.0 B | | | | 33.0 B | | | 26 |
| 27 | | 34.8 | 10 | 30.1 | | 78.0 B | | | | 33.0 B | | | 27 |
| 28 | | 32.4 | 11 S | 30.8 | | 84.0 B | | | | 33.8 B | | | 28 |
| 29 | | 36.4 | 10 | 30.8 | | 88.5 B | | | | 34.0 B | | | 29 |
| 30 | | 36.8 | 9 | 28.7 | | 82.0 B | | | | 35.0 B | | | 30 |
| 31 | | 38.8 E | 8 S | 28.4 | | | | | | 36.0 B | | | 31 |
| TOTAL | | 1 140.4 | | 805.8 | | 2 247.3 | | | | 1 354.3 | | | TOTAL |
| MEAN | | 36.8 | | 26.0 | | 74.9 | | | | 43.7 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 2 720 ON JUL 21

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 43 800 ON JUL 21

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 44 18 N
LONG 110 05 45 W
DRAINAGE AREA 66 000 $km^2$
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JUL 03 | 15:00 | 139 H | 15.0 | 529 K | 38 | 49 | 64 | 82 | 93 | 98 | 98 | 98 | 100 | | | BNW |
| JUL 21 | 07:00 | 187 H | 16.0 | 2 610 K | 31 | 43 | 59 | 75 | 88 | 98 | 99 | 100 | | | | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.258 B | | | | 0.152 B | | | | 0.124 B | | | 1 |
| 2 | | 0.256 B | | | | 0.138 B | | | | 0.126 B | | | 2 |
| 3 | | 0.250 B | | | | 0.136 B | | | | 0.124 B | | | 3 |
| 4 | | 0.247 B | | | | 0.131 B | | | | 0.125 B | | | 4 |
| 5 | | 0.228 B | | | | 0.139 B | | | | 0.123 B | | | 5 |
| 6 | | 0.213 B | | | | 0.129 B | | | | 0.124 B | | | 6 |
| 7 | | 0.201 B | | | | 0.130 B | | | | 0.125 B | | | 7 |
| 8 | | 0.196 B | | | | 0.134 B | | | | 0.129 B | | | 8 |
| 9 | | 0.193 B | | | | 0.131 B | | | | 0.141 B | | | 9 |
| 10 | | 0.188 B | | | | 0.127 B | | | | 0.141 B | | | 10 |
| 11 | | 0.182 B | | | | 0.131 B | | | | 0.154 B | | | 11 |
| 12 | | 0.183 B | | | | 0.144 B | | | | 0.168 B | | | 12 |
| 13 | | 0.187 B | | | | 0.162 B | | | | 0.164 B | | | 13 |
| 14 | | 0.186 B | | | | 0.164 B | | | | 0.174 B | | | 14 |
| 15 | | 0.176 B | | | | 0.160 B | | | | 0.178 B | | | 15 |
| 16 | | 0.185 B | | | | 0.134 B | | | | 0.178 B | | | 16 |
| 17 | | 0.183 B | | | | 0.128 B | | | | 0.182 B | | | 17 |
| 18 | | 0.182 B | | | | 0.128 B | | | | 0.172 B | | | 18 |
| 19 | | 0.180 B | | | | 0.138 B | | | | 0.160 B | | | 19 |
| 20 | | 0.171 B | | | | 0.132 B | | | | 0.146 B | | | 20 |
| 21 | | 0.158 B | | | | 0.138 B | | | | 0.127 B | | | 21 |
| 22 | | 0.136 B | | | | 0.142 B | | | | 0.126 B | | | 22 |
| 23 | | 0.140 B | | | | 0.136 B | | | | 0.125 B | | | 23 |
| 24 | | 0.133 B | | | | 0.131 B | | | | 0.124 B | | | 24 |
| 25 | | 0.133 B | | | | 0.126 B | | | | 0.124 B | | | 25 |
| 26 | | 0.137 B | | | | 0.129 B | | | | 0.123 B | | | 26 |
| 27 | | 0.139 B | | | | 0.126 B | | | | 0.143 B | | | 27 |
| 28 | | 0.141 B | | | | 0.118 B | | | | 0.178 B | | | 28 |
| 29 | | 0.146 B | | | | | | | | 0.221 B | | | 29 |
| 30 | | 0.144 B | | | | | | | | 0.239 B | | | 30 |
| 31 | | 0.150 B | | | | | | | | 0.251 B | | | 31 |
| TOTAL | | 5.820 | | | | 3.785 | | | | 4.738 | | | TOTAL |
| MEAN | | 0.178 | | | | 0.134 | | | | 0.152 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.278 B | | | | 8.20 | 18 S | 10.2 | | 5.31 | 9 | 4.13 | 1 |
| 2 | | 0.321 B | | | | 5.59 | 20 | 9.69 | 18.0 | 5.07 | 8 S | 3.50 | 2 |
| 3 | | 0.402 B | | | | 7.01 | 27 S | 16.4 | | 4.67 | 7 | 2.85 | 3 |
| 4 | | 0.433 B | | | | 5.63 | 28 | 14.8 | 14.0 | 4.50 | 7 S | 2.72 | 4 |
| 5 | | 0.467 B | | | | 8.17 | 34 S | 24.0 | | 4.21 | 7 | 2.55 | 5 |
| 6 | | 0.533 B | | | | 8.84 | 41 | 31.3 | 16.0 | 4.36 | 7 S | 2.64 | 6 |
| 7 | | 1.31 B | | | | 6.43 | 26 S | 20.4 | | 4.54 | 7 | 2.75 | 7 |
| 8 | | 2.96 B | | | | 8.29 | 26 | 18.5 | 18.0 | 4.20 | 7 S | 2.58 | 8 |
| 9 | | 3.51 B | | | | 6.84 | 26 S | 18.7 | | 3.96 | 8 | 2.74 | 9 |
| 10 | | 2.86 B | | | | 6.09 | 23 | 18.0 | 18.0 | 3.82 | 8 S | 2.81 | 10 |
| 11 | | 2.73 B | | | | 7.04 | 18 S | 10.9 | - | 4.05 | 9 | 3.15 | 11 |
| 12 | | 3.01 B | | | | 6.59 | 15 | 8.54 | 18.0 | 4.87 | 8 S | 3.37 | 12 |
| 13 | | 2.80 B | | | | 6.16 | 13 S | 8.94 | | 5.08 | 9 | 3.83 | 13 |
| 14 | | 2.50 | | | | 5.97 | 13 | 8.71 | 22.0 | 4.93 | 10 S | 4.26 | 14 |
| 15 | | 2.01 | | | | 5.19 | 13 S | 8.83 | | 4.47 | 10 | 3.86 | 15 |
| 16 | | 2.86 | 54 | 13.4 | | 5.12 | 14 | 8.19 | 22.0 | 3.79 | 9 S | 2.95 | 16 |
| 17 | | 3.94 | 61 | 20.8 | 13.0 | 4.98 | 15 S | 9.45 | | 3.61 | 8 | 2.86 | 17 |
| 18 | 7.0 | 5.89 | 60 S | 46.2 | | 5.46 | 15 | 7.06 | 16.0 | 5.01 | 44 S | 22 A | 18 |
| 19 | | 11.0 | 138 S | 132 | 14.0 | 5.85 | 13 S | 8.35 | | 50.9 | 1 310 S | 5 780 | 19 |
| 20 | 7.0 | 13.4 | 163 S | 189 | | 5.64 | 13 | 8.33 | 12.0 | 185 | 4 990 S | 73 400 | 20 |
| 21 | | 13.4 | 148 | 173 | 16.0 | 8.26 | 26 S | 20.0 | 8.0 | 158 A | 3 430 S | 33 800 | 21 |
| 22 | 8.0 | 16.8 | 284 S | 383 | 13.0 | 8.82 | 107 | 120 | 11.0 | 84.9 A | 1 280 S | 9 240 | 22 |
| 23 | | 14.7 | 186 | 238 | 15.0 | 11.8 | 76 S | 77.5 | 13.0 | 53.1 A | 844 S | 3 850 | 23 |
| 24 | 8.0 | 11.9 | 102 S | 105 | | 12.5 | 47 | 50.6 | 13.0 | 38.1 A | 380 S | 1 190 | 24 |
| 25 | 8.0 | 10.7 | 77 S | 71.2 | 14.0 | 10.6 | 37 S | 34.6 | | 135 | 1 220 | 14 200 | 25 |
| 26 | | 8.73 | 54 | 40.7 | | 8.78 | 33 | 27.8 | | 441 A | S 170 | 197 000 | 26 |
| 27 | | 8.88 | 36 S | 30.5 | 16.0 | 8.82 | 24 S | 17.8 | | 310 A | 3 480 S | 96 700 | 27 |
| 28 | | 8.75 | 25 | 12.8 | | 7.58 | 20 | 13.1 | 13.0 | 118 A | 1 320 S | 13 200 | 28 |
| 29 | | 8.23 | 18 S | 8.58 | 20.0 | 8.85 | 18 S | 8.62 | 14.0 | 70.5 | 874 S | 3 880 | 29 |
| 30 | | 8.66 | 18 | 8.85 | | 8.14 | 17 | 8.27 | 16.0 | 80.4 | 388 S | 1 720 | 30 |
| 31 | | | | | 20.0 | 8.88 | 12 S | 8.80 | | | | | 31 |
| TOTAL | | 182.875 | | | | 234.71 | | 533.87 | | 1 770.58 | | 421 736.64 | TOTAL |
| MEAN | | 5.93 | | | | 7.57 | | 20.8 | | 59.0 | | 14 100 | MEAN |

ALBERTA

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 43.7 | 331 S | 1 280 | 15.0 | 43.7 A | 430 S | 1 820 | | 4.40 E | 33 | 6.74 | 1 |
| 2 | | 45.3 | 361 | 1 100 | | 34.8 A | 233 | 701 | 17.0 | 4.33 A | 20 S | 7.48 | 2 |
| 3 | 16.0 | 41.2 | 288 S | 1 080 | 15.0 | 34.7 A | 272 S | 815 | | 4.40 E | 18 | 6.64 | 3 |
| 4 | | 31.8 | 271 | 745 | | 33.3 A | 326 | 938 | 14.0 | 4.78 A | 17 S | 7.04 | 4 |
| 5 | 15.0 | 33.6 | 282 S | 848 | 15.0 | 27.3 | 185 S | 480 | | 5.00 E | 14 | 6.28 | 5 |
| 6 | | 46.2 | 466 | 2 030 | | 24.0 A | 143 | 297 | | 5.00 E | 28 | 10.4 | 6 |
| 7 | 15.0 | 40.8 | 414 S | 1 480 | 15.0 | 18.3 A | 107 S | 161 | 9.0 | 11.7 A | 133 S | 134 | 7 |
| 8 | | 34.3 | 292 | 747 | | 14.5 E | 66 | 106 | | 5.00 E | 75 | 59.1 | 8 |
| 9 | | 221 | 1 880 | 31 700 | | 13.0 E | 70 | 78.8 | 10.0 | 8.85 A | 40 S | 28.8 | 9 |
| 10 | 14.0 | 142 | 1 730 S | 21 200 | 21.0 | 11.1 A | 86 S | 85.6 | | 8.40 E | 35 | 26.4 | 10 |
| 11 | 13.0 | 70.3 | 958 S | 5 810 | | 10.3 E | 51 | 45 4 | 9.0 | 8.85 A | 34 S | 25.3 | 11 |
| 12 | 14.0 | 80.1 | 884 S | 2 400 | 15.0 | 9.46 A | 45 S | 36.8 | | 8.20 E | 26 | 19.8 | 12 |
| 13 | 14.0 | 41.1 | 249 S | 884 | | 8.80 E | 45 | 33.4 | 10.0 | 7.12 A | 21 S | 12.9 | 13 |
| 14 | | 35.3 | 208 | 633 | 15.0 | 8.08 A | 84 S | 58.7 | | 6.60 E | 15 | 10.6 | 14 |
| 15 | 12.0 | 35.1 | 323 S | 1 010 | | 18.0 E | 187 | 281 | 10.0 | 6.36 A | 17 S | 9.19 | 15 |
| 16 | 10.0 | 185 | 3 320 S | 53 100 | 15.0 | 13.4 A | 138 S | 160 | | 6.00 E | 18 | 8.85 | 16 |
| 17 | 12.0 | 200 A | 2 310 S | 41 700 | | 11.0 E | 80 | 76.0 | 8.0 | 7.56 A | 22 S | 14.4 | 17 |
| 18 | 12.0 | 178 A | 1 810 S | 28 000 | 13.0 | 9.38 A | 45 S | 38.1 | | 6.40 E | 25 | 18.1 | 18 |
| 19 | 14.0 | 88.4 | 1 080 S | 8 080 | | 8.20 E | 38 | 28.6 | 8.0 | 5.90 A | 38 S | 23.4 | 19 |
| 20 | | 80.1 | 788 | 3 880 | 13.0 | 7.70 A | 32 S | 21.3 | | 5.20 E | 31 | 22.0 | 20 |
| 21 | 14.0 | 82.8 | 868 S | 4 820 | | 7.10 E | 28 | 17.2 | | 5.00 E | 25 | 17.3 | 21 |
| 22 | 15.0 | 83.0 | 858 S | 4 680 | 15.0 | 6.83 A | 23 S | 13.2 | 10.0 | 11.8 A | 40 S | 40.8 | 22 |
| 23 | | 41.1 | 393 | 1 400 | 14.0 | 6.20 | 23 S | 12.3 | | 14.0 E | 120 | 145 | 23 |
| 24 | 15.0 | 39.9 | 333 S | 802 | | 5.85 | 22 | 11.1 | 9.0 | 11.8 A | 78 S | 77.5 | 24 |
| 25 | | 38.6 | 187 | 411 | 15.0 | 5.13 | 25 S | 13.2 | | 8.50 E | 35 | 28.6 | 25 |
| 26 | | 121 | 893 | 9 770 | | 5.54 E | 28 | 13.4 | 11.0 | 8.74 A | 24 S | 16.1 | 26 |
| 27 | | 411 A | 2 880 | 105 000 | 14.0 | 5.51 A | 32 S | 15.2 | 7.0 | 8.55 A | 25 S | 16.6 | 27 |
| 28 | 12.5 | 361 A | 2 070 S | 81 000 | | 5.72 | 76 | 44.3 | | 8.20 | 23 | 16.3 | 28 |
| 29 | 14.0 | 168 A | 1 580 S | 19 900 | 17.0 | 8.08 | 75 S | 38.5 | 8.0 | 8.00 A | 19 S | 13.1 | 29 |
| 30 | 14.0 | 108 A | 1 200 S | 11 000 | | 5.45 A | 45 | 21.2 | | 7.40 E | 13 | 8.31 | 30 |
| 31 | 15.0 | 81.4 A | 704 S | 3 730 | 15.0 | 4.83 A | 28 S | 11.6 | | | | | 31 |
| TOTAL | | 3 055.1 | | 432 040 | | 422.59 | | 8 230.5 | | 244.05 | | 870.14 | TOTAL |
| MEAN | | 98.6 | | 13 900 | | 13.6 | | 281 | | 8.14 | | 28.0 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.0 | 8.57 A | 10 S | 4.88 | | 5.85 | | | | 1.04 B | | | 1 |
| 2 | | 8.20 E | 10 | 5.36 | | 5.80 | | | | 1.23 B | | | 2 |
| 3 | 7.0 | 8.48 A | 8 S | 4.88 | | 10.3 | | | | 1.20 B | | | 3 |
| 4 | | 8.80 E | 14 | 7.14 | | 11.1 | | | | 1.18 B | | | 4 |
| 5 | | 8.00 E | 36 | 18.1 | | 10.6 | | | | 1.15 B | | | 5 |
| 6 | 5.0 | 7.32 A | 94 S | 59.9 | | 8.89 | | | | 1.18 B | | | 6 |
| 7 | | 8.00 E | 111 | 78.7 | | 7.81 | | | | 1.17 B | | | 7 |
| 8 | 5.0 | 8.88 A | 41 S | 23.6 | | 7.59 | | | | 1.25 B | | | 8 |
| 9 | | 8.20 E | 30 | 10.7 | | 5.28 B | | | | 1.15 B | | | 9 |
| 10 | 4.0 | 8.88 A | 10 S | 5.15 | | 4.68 B | | | | 1.12 B | | | 10 |
| 11 | | 8.80 E | 8 | 3.87 | | 3.93 B | | | | 1.08 B | | | 11 |
| 12 | | 8.33 A | 7 | 3.18 | | 3.84 B | | | | 1.03 B | | | 12 |
| 13 | 5.0 | 8.30 | 7 S | 3.14 | | 5.68 B | | | | 0.963 B | | | 13 |
| 14 | | 8.47 | 7 | 3.21 | | 5.76 B | | | | 0.924 B | | | 14 |
| 15 | 4.0 | 7.88 | 22 S | 14.8 | | 5.03 B | | | | 0.880 B | | | 15 |
| 16 | | 8.81 | 34 | 25.2 | | 4.89 B | | | | 0.880 B | | | 16 |
| 17 | 4.0 | 7.88 | 21 S | 14.4 | | 4.77 B | | | | 0.843 B | | | 17 |
| 18 | | 8.88 | 17 | 10.3 | | 4.68 B | | | | 0.784 B | | | 18 |
| 19 | 5.0 | 8.35 | 13 S | 7.28 | | 4.62 B | | | | 0.745 B | | | 19 |
| 20 | | 8.36 | 11 | 5.84 | | 4.35 B | | | | 0.708 B | | | 20 |
| 21 | 4.0 | 8.04 | 10 S | 5.32 | | 3.87 B | | | | 0.866 B | | | 21 |
| 22 | | 8.78 | 10 | 5.00 | | 3.49 B | | | | 0.871 B | | | 22 |
| 23 | 4.0 | 8.74 | 11 S | 6.46 | | 3.66 B | | | | 0.861 B | | | 23 |
| 24 | | 8.73 | 12 | 8.83 | | 3.26 B | | | | 0.852 B | | | 24 |
| 25 | 4.0 | 8.04 | 28 S | 13.8 | | 2.13 B | | | | 0.808 B | | | 25 |
| 26 | | 8.01 | 24 | 10.4 | | 1.85 B | | | | 0.880 B | | | 26 |
| 27 | 4.0 | 8.14 | 18 S | 7.89 | | 1.89 B | | | | 0.888 B | | | 27 |
| 28 | | 8.21 | 17 | 7.85 | | 1.71 B | | | | 0.878 B | | | 28 |
| 29 | 4.0 | 8.85 | 18 S | 8.84 | | 1.74 B | | | | 0.880 B | | | 29 |
| 30 | | 8.48 | 18 | 8.08 | | 1.78 B | | | | 0.885 B | | | 30 |
| 31 | 4.0 | 8.88 | 34 S | 13.8 | | | | | | 0.804 B | | | 31 |
| TOTAL | | 188.20 | | 385.74 | | 182.16 | | | | 27.778 | | | TOTAL |
| MEAN | | 8.07 | | 12.8 | | 8.07 | | | | 0.888 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 10 00 N
LONG 115 24 30 W
DRAINAGE AREA 1 980 km²
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JUN 21 | 13:00 | 183 | 9.0 | 2 150 K | 15 | 20 | 31 | 42 | 58 | 78 | 90 | 98 | 99 | 100 | | BNW |
| JUN 27 | 14:30 | 285 | 11.0 | 2 080 R | 16 | 21 | 31 | 42 | 57 | 80 | 93 | 97 | 99 | 99 | | BNW |
| JUN 27 | 14:40 | 285 | 11.0 | 2 020 K | 16 | 21 | 30 | 42 | 60 | 80 | 94 | 98 | 99 | 100 | | BNW |
| JUL 10 | 10:00 | 142 M | 14.0 | 1 730 K | 13 | 18 | 27 | 37 | 54 | 75 | 88 | 96 | 98 | 99 | | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

TWIN CREEK NEAR SEEBE - STATION NO. 05BF010

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.005 | | | | 0.005 | | | | 0.004 | | | 1 |
| 2 | | 0.006 | | | | 0.005 | | | | 0.004 | | | 2 |
| 3 | | 0.006 | | | | 0.005 | | | | 0.004 | | | 3 |
| 4 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 4 |
| 5 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 5 |
| 6 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 6 |
| 7 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 7 |
| 8 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 8 |
| 9 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 9 |
| 10 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 10 |
| 11 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 11 |
| 12 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 12 |
| 13 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 13 |
| 14 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 14 |
| 15 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 15 |
| 16 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 16 |
| 17 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 17 |
| 18 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 18 |
| 19 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 19 |
| 20 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 20 |
| 21 | | 0.005 | | | | 0.004 | | | | 0.004 | | | 21 |
| 22 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 22 |
| 23 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 23 |
| 24 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 24 |
| 25 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 25 |
| 26 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 26 |
| 27 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 27 |
| 28 | | 0.005 | | | | 0.004 | | | | 0.003 | | | 28 |
| 29 | | 0.005 | | | | | | | | 0.003 | | | 29 |
| 30 | | 0.005 | | | | | | | | 0.003 | | | 30 |
| 31 | | 0.005 | | | | | | | | 0.003 | | | 31 |
| TOTAL | | 0.171 | | | | 0.115 | | | | 0.114 | | | TOTAL |
| MEAN | | 0.005 | | | | 0.004 | | | | 0.004 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.003 | | | | 0.008 | | | 3.0 | 0.243 | 2 5 | 0.64 | 1 |
| 2 | | 0.003 | | | | 0.008 | | | | 0.218 | 2 | 0.04 | 2 |
| 3 | | 0.003 | | | | 0.008 | | | | 0.178 | 2 | 0.03 | 3 |
| 4 | | 0.003 | | | | 0.008 | | | | 0.156 | 2 | 0.03 | 4 |
| 5 | | 0.003 | | | | 0.008 | | | | 0.187 | 2 | 0.03 | 5 |
| 6 | | 0.003 | | | | 0.010 | | | | 0.178 | 1 | 0.02 | 6 |
| 7 | | 0.003 | | | | 0.013 | | | | 0.201 | 1 | 0.02 | 7 |
| 8 | | 0.003 | | | | 0.013 | | | 3.0 | 0.208 | 1 5 | 0.02 | 8 |
| 9 | | 0.003 | | | | 0.011 | | | | 0.208 | 1 | 0.02 | 9 |
| 10 | | 0.003 | | | | 0.011 | | | | 0.207 | 1 | 0.02 | 10 |
| 11 | | 0.003 | | | | 0.010 | | | | 0.187 | 1 | 0.02 | 11 |
| 12 | | 0.003 | | | | 0.011 | | | | 0.166 | 1 | 0.01 | 12 |
| 13 | | 0.003 | | | | 0.011 | | | | 0.148 | 1 | 0.01 | 13 |
| 14 | | 0.003 | | | | 0.012 | | | | 0.136 | 1 | 0.01 | 14 |
| 15 | | 0.003 | | | | 0.013 | | | 3.5 | 0.127 | 1 5 | 0.01 | 15 |
| 16 | | 0.003 | | | | 0.013 | | | | 0.131 | 1 | 0.01 | 16 |
| 17 | | 0.003 | | | | 0.015 | | | | 0.124 | 1 | 0.01 | 17 |
| 18 | | 0.003 | | | | 0.016 | | | | 0.120 | 0 | 0 | 18 |
| 19 | | 0.003 | | | | 0.016 | | | | 0.110 | 0 | 0 | 19 |
| 20 | | 0.004 | | | 0.5 | 0.021 | 1 5 | 0 | | 0.100 | 0 | 0 | 20 |
| 21 | | 0.005 | | | | 0.027 | 1 | 0 | | 0.092 | 0 | 0 | 21 |
| 22 | | 0.006 | | | | 0.036 | 1 | 0 | | 0.093 | 0 | 0 | 22 |
| 23 | | 0.007 | | | | 0.052 | 1 | 0 | 5.0 | 0.104 | 0 5 | 0 | 23 |
| 24 | | 0.017 | | | | 0.071 | 1 | 0.01 | | 0.128 | 0 | 0 | 24 |
| 25 | | 0.017 | | | | 0.108 | 1 | 0.01 | | 0.133 | 0 | 0 | 25 |
| 26 | | 0.013 | | | 1.0 | 0.131 | 1 5 | 0.01 | | 0.126 | 0 | 0 | 26 |
| 27 | | 0.011 | | | | 0.148 | 1 | 0.01 | 5.0 | 0.121 | 0 5 | 0 | 27 |
| 28 | | 0.008 | | | | 0.188 | 1 | 0.02 | | 0.118 | 0 | 0 | 28 |
| 29 | | 0.008 | | | | 0.275 | 2 | 0.05 | 5.0 | 0.111 | 1 5 | 0.01 | 29 |
| 30 | | 0.004 | | | | 0.277 | 1 | 0.02 | | 0.107 | 0 | 0 | 30 |
| 31 | | | | | | 0.243 | 1 | 0.02 | | | | | 31 |
| TOTAL | | 0.183 | | | | 1.786 | | | | 4.435 | | 0.36 | TOTAL |
| MEAN | | 0.005 | | | | 0.057 | | | | 0.144 | | 0.01 | MEAN |

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.100 | 0 | 0 | | 0.048 | 1 | 0 | | 0.019 | 1 | 0 | 1 |
| 2 | | 0.095 | 0 | 0 | | 0.043 | 0 | 0 | | 0.018 | 1 | 0 | 2 |
| 3 | | 0.133 | 1 | 0 | | 0.040 | 0 | 0 | | 0.018 | 1 | 0 | 3 |
| 4 | | 0.170 | 1 | 0.01 | | 0.038 | 0 | 0 | | 0.018 | 1 | 0 | 4 |
| 5 | | 0.188 | 1 | 0.01 | 8.0 | 0.037 | 0 S | 0 | | 0.018 | 1 | 0 | 5 |
| 6 | | 0.148 | 1 | 0.01 | | 0.035 | 0 | 0 | | 0.018 | 1 | 0 | 6 |
| 7 | 9.0 | 0.131 | 1 S | 0.01 | | 0.034 | 0 | 0 | | | | | |
| 8 | | 0.123 | 1 | 0.01 | | 0.033 | 0 | 0 | 4.0 | 0.018 | 1 | 0 | 8 |
| 9 | | 0.113 | 1 | 0.01 | | 0.032 | 0 | 0 | | 0.021 | 1 S | 0 | 9 |
| 10 | | 0.104 | 1 | 0.01 | | 0.031 | 0 | 0 | | 0.018 | 1 | 0 | 10 |
| 11 | | 0.096 | 1 | 0.01 | 7.0 | 0.031 | 0 S | 0 | | 0.018 | 1 | 0 | 11 |
| 12 | | 0.093 | 1 | 0.01 | | 0.030 | 0 | 0 | | 0.018 | 1 | 0 | 12 |
| 13 | 4.5 | 0.087 | 1 S | 0.01 | | 0.029 | 0 | 0 | | 0.017 | 0 | 0 | 13 |
| 14 | | 0.085 | 1 | 0.01 | | 0.028 | 0 | 0 | | 0.018 | 0 | 0 | 14 |
| 15 | | 0.082 | 1 | 0.01 | | 0.027 | 0 | 0 | 4.0 | 0.018 | 0 S | 0 | 15 |
| 16 | | 0.081 | 1 | 0.01 | | 0.026 | 0 | 0 | | 0.015 | 0 | 0 | 16 |
| 17 | | 0.087 | 1 | 0.01 | | 0.026 | 0 | 0 | | 0.018 | 0 | 0 | 17 |
| 18 | | 0.097 | 1 | 0.01 | | 0.026 | 0 | 0 | | 0.018 | 0 | 0 | 18 |
| 19 | | 0.111 | 1 | 0.01 | 8.0 | 0.026 | 0 S | 0 | | 0.016 | 0 | 0 | 19 |
| 20 | | 0.110 | 1 | 0.01 | | 0.025 | 0 | 0 | | 0.016 | 0 | 0 | 20 |
| 21 | | 0.102 | 1 | 0.01 | | 0.024 | 1 | 0 | | 0.014 | 0 | 0 | 21 |
| 22 | 6.0 | 0.092 | 1 S | 0.01 | 8.0 | 0.024 | 1 S | 0 | | 0.015 | 0 | 0 | 22 |
| 23 | | 0.084 | 1 | 0.01 | | 0.024 | 1 | 0 | | 0.014 | 0 | 0 | 23 |
| 24 | | 0.078 | 1 | 0.01 | | 0.024 | 1 | 0 | | 0.014 | 0 | 0 | 24 |
| 25 | | 0.074 | 1 | 0.01 | | 0.024 | 1 | 0 | | 0.014 | 0 | 0 | 25 |
| 26 | | 0.088 | 1 | 0.01 | | 0.023 | 1 | 0 | 4.0 | 0.013 | 0 S | 0 | 26 |
| 27 | 8.0 | 0.083 | 1 S | 0.01 | | 0.022 | 1 | 0 | | 0.014 | 0 | 0 | 27 |
| 28 | | 0.088 | 1 | 0.01 | | 0.022 | 1 | 0 | | 0.013 | 0 | 0 | 28 |
| 29 | | 0.084 | 1 | 0 | | 0.021 | 1 | 0 | | 0.013 | 0 | 0 | 29 |
| 30 | | 0.051 | 1 | 0 | | 0.020 | 1 | 0 | 1.0 | 0.012 | 0 S | 0 | 30 |
| 31 | | 0.048 | 1 | 0 | | 0.019 | 1 | 0 | | | | | 31 |
| TOTAL | | 3.083 | | 0.28 | | 0.881 | | 0 | | 0.480 | | 0 | TOTAL |
| MEAN | | 0.099 | | 0.01 | | 0.028 | | 0 | | 0.016 | | 0 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.012 | | | | | | | | | | | |
| 2 | | 0.013 | | | | 0.010 | | | | 0.008 | | | 1 |
| 3 | | 0.013 | | | | 0.008 | | | | 0.008 | | | 2 |
| 4 | | 0.012 | | | | 0.010 | | | | 0.008 | | | 3 |
| 5 | | 0.013 | | | | 0.011 | | | | 0.008 | | | 4 |
| 6 | | 0.013 | | | | 0.010 | | | | 0.008 | | | 5 |
| 7 | | 0.012 | | | | 0.010 | | | | | | | |
| 8 | | 0.012 | | | | 0.008 | | | | 0.008 | | | 8 |
| 9 | | 0.013 | | | | 0.008 | | | | 0.008 | | | 9 |
| 10 | | 0.011 | | | | 0.008 | | | | 0.008 | | | 10 |
| 11 | | 0.011 | | | | 0.008 | | | | 0.008 | | | 11 |
| 12 | | 0.011 | | | | 0.008 | | | | 0.008 | | | 12 |
| 13 | | 0.011 | | | | 0.008 | | | | 0.008 | | | 13 |
| 14 | | 0.011 | | | | 0.008 | | | | 0.008 | | | 14 |
| 15 | | 0.011 | | | | 0.008 | | | | 0.008 | | | 15 |
| 16 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 16 |
| 17 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 17 |
| 18 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 18 |
| 19 | | 0.011 | | | | 0.008 | | | | 0.005 | | | 19 |
| 20 | | 0.011 | | | | 0.007 | | | | 0.004 | | | 20 |
| 21 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 21 |
| 22 | | 0.011 | | | | 0.007 | | | | 0.004 | | | 22 |
| 23 | | 0.010 | | | | 0.007 | | | | 0.003 | | | 23 |
| 24 | | 0.010 | | | | 0.007 | | | | 0.003 | | | 24 |
| 25 | | 0.010 | | | | 0.007 | | | | | | | 25 |
| 26 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 26 |
| 27 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 27 |
| 28 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 28 |
| 29 | | 0.008 | | | | 0.007 | | | | 0.004 | | | 29 |
| 30 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 30 |
| 31 | | 0.010 | | | | 0.007 | | | | 0.004 | | | 31 |
| TOTAL | | 0.343 | | | | 0.244 | | | | 0.152 | | | TOTAL |
| MEAN | | 0.011 | | | | 0.008 | | | | 0.005 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MINIMUM DAILY 0 ON JUN 16

SUSPENDED SEDIMENT LOAD(t/d)

MINIMUM DAILY 0 ON MAY 20

E - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 33 N
LONG 115 10 10 W
DRAINAGE AREA 2.66 $km^2$
NATURAL FLOW

ALBERTA

WAMPUS CREEK NEAR HINTON - STATION NO. 07AF003

SUSPENDED SEDIMENT FOR 1983

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.045 B | 7 | 0.03 | | 0.861 | 39 | 1.98 | | 0.326 | 4 | 0.11 | 1 |
| 2 | | 0.045 B | 7 | 0.03 | | 0.714 | 36 | 2.22 | | 0.322 | 4 | 0.11 | 2 |
| 3 | | 0.045 B | 7 | 0.03 | | 0.631 | 29 | 1.58 | 7.0 | 0.340 | 4 S | 0.12 | 3 |
| 4 | | 0.047 B | 8 | 0.03 | | 0.506 | 24 | 1.28 | | 0.325 | 4 | 0.11 | 4 |
| 5 | | 0.048 B | 8 | 0.03 | 2.0 | 0.612 | 24 S | 1.27 | | 0.309 | 3 | 0.08 | 5 |
| 6 | | 0.050 B | 8 | 0.04 | | 0.830 | 21 | 1.51 | 9.0 | 0.282 | 3 S | 0.07 | 6 |
| 7 | | 0.048 B | 8 | 0.03 | 1.8 | 0.750 | 18 S | 1.17 | | 0.288 | 3 | 0.07 | 7 |
| 8 | | 0.042 B | 7 | 0.03 | 1.5 | 0.621 | 13 S | 0.84 | | 0.243 | 3 | 0.06 | 8 |
| 9 | | 0.040 B | 7 | 0.02 | 1.3 | 0.633 | 7 S | 0.38 | | 0.227 | 4 | 0.08 | 9 |
| 10 | | 0.036 B | 7 | 0.02 | | 0.864 | 15 | 0.85 | 9.8 | 0.218 | 5 S | 0.09 | 10 |
| 11 | | 0.040 B | 7 | 0.02 | | 0.758 | 19 | 1.24 | | 0.207 | 5 | 0.09 | 11 |
| 12 | | 0.048 B | 8 | 0.04 | 1.0 | 0.882 | 16 S | 0.92 | | 0.200 | 5 | 0.09 | 12 |
| 13 | 0.1 | 0.056 B | 11 S | 0.05 | 1.0 | 0.884 | 9 S | 0.62 | | 0.201 | 4 | 0.07 | 13 |
| 14 | | 0.050 B | 11 | 0.05 | 1.5 | 0.959 | 25 S | 2.15 | 10.2 | 0.188 | 4 S | 0.07 | 14 |
| 15 | | 0.057 B | 11 | 0.05 | | 0.806 | 14 | 0.97 | | 0.182 | 4 | 0.06 | 15 |
| 16 | | 0.063 B | 11 | 0.06 | | 0.715 | 12 | 0.74 | 9.8 | 0.184 | 3 S | 0.05 | 16 |
| 17 | | 0.186 B | 13 | 0.21 | | 0.848 | 10 | 0.86 | | 0.185 | 3 | 0.05 | 17 |
| 18 | | 0.400 B | 38 | 1.31 | | 0.890 | 5 | 0.41 | 7.0 | 0.188 | 3 S | 0.05 | 18 |
| 19 | | 0.500 B | 35 | 1.51 | 3.0 | 0.834 | 8 S | 0.26 | | 0.191 | 3 | 0.05 | 19 |
| 20 | | 0.580 B | 34 | 1.85 | | 0.899 | 5 | 0.28 | 7.0 | 0.384 | 17 S | 0.53 | 20 |
| 21 | 0.1 | 0.620 B | 35 S | 1.39 | | 0.685 | 5 | 0.20 | 10.0 | 0.415 | 14 S | 0.50 | 21 |
| 22 | | 0.580 B | 28 | 1.38 | | 0.629 | 5 | 0.18 | | 0.269 | 9 | 0.23 | 22 |
| 23 | | 0.510 | 33 | 1.45 | 8.0 | 0.604 | 4 S | 0.14 | 7.3 | 0.282 | 12 S | 0.29 | 23 |
| 24 | | 0.577 | 42 | 2.46 | | 0.381 | 4 | 0.13 | 7.1 | 1.28 | 276 S | 30.5 | 24 |
| 25 | 1.0 | 0.671 | 48 S | 2.87 | | 0.369 | 4 | 0.13 | 8.7 | 1.05 | 41 S | 3.72 | 25 |
| 26 | | 0.488 | 41 | 1.73 | 8.3 | 0.358 | 4 S | 0.12 | | 0.784 | 28 | 1.98 | 26 |
| 27 | | 0.486 | 40 | 1.68 | 4.5 | 0.343 | 6 S | 0.18 | | 1.08 | 28 | 2.63 | 27 |
| 28 | | 0.832 | 41 | 2.20 | | 0.328 | 8 | 0.17 | 7.6 | 0.786 | 19 S | 1.29 | 28 |
| 29 | | 0.848 | 41 | 2.30 | | 0.318 | 8 | 0.18 | | 0.690 | 12 | 0.78 | 29 |
| 30 | | 0.846 | 38 | 1.78 | | 0.312 | 8 | 0.13 | 7.8 | 0.682 | 10 S | 0.57 | 30 |
| 31 | | | | | | 0.308 | 8 | 0.13 | | | | | 31 |
| TOTAL | | 8.236 | | 24.28 | | 17.480 | | 22.58 | | 12.288 | | 44.26 | TOTAL |
| MEAN | | 0.274 | | 0.81 | | 0.564 | | 0.73 | | 0.409 | | 1.48 | MEAN |

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.641 | 9 | 0.50 | | 0.120 | 1 | 0.01 | | 0.041 | 2 | 0.01 | 1 |
| 2 | 7.0 | 0.598 | 9 S | 0.48 | 10.5 | 0.119 | 1 S | 0.01 | 9.5 | 0.048 | 2 S | 0.01 | 2 |
| 3 | | 0.621 | 9 | 0.48 | | 0.118 | 1 | 0.01 | | 0.044 | 1 | 0 | 3 |
| 4 | 11.7 | 0.525 | 7 S | 0.32 | | 0.118 | 1 | 0.01 | | 0.043 | 1 | 0 | 4 |
| 5 | 10.8 | 0.433 | 7 S | 0.28 | 10.5 | 0.117 | 1 S | 0.01 | | 0.043 | 1 | 0 | 5 |
| 6 | | 0.364 | 7 | 0.23 | 10.0 | 0.108 | 1 S | 0.01 | 8.0 | 0.044 | 0 S | 0 | 6 |
| 7 | | 0.352 | 7 | 0.21 | | 0.088 | 1 | 0.01 | | 0.043 | 0 | 0 | 7 |
| 8 | | 0.330 | 6 | 0.17 | 18.5 | 0.087 | 3 S | 0.03 | | 0.043 | 1 | 0 | 8 |
| 9 | | 0.376 | 7 | 0.23 | | 0.089 | 2 | 0.02 | 4.0 | 0.052 | 3 S | 0.02 | 9 |
| 10 | 12.3 | 0.298 | 5 S | 0.13 | | 0.088 | 2 | 0.01 | | 0.088 | 4 | 0.02 | 10 |
| 11 | | 0.261 | 5 | 0.11 | | 0.078 | 1 | 0.01 | | 0.084 | 4 | 0.02 | 11 |
| 12 | | 0.242 | 5 | 0.10 | 15.4 | 0.088 | 2 S | 0.02 | | 0.050 | 4 | 0.02 | 12 |
| 13 | | 0.224 | 4 | 0.08 | 13.0 | 0.077 | 2 S | 0.02 | 5.0 | 0.048 | 4 S | 0.02 | 13 |
| 14 | 10.0 | 0.214 | 4 S | 0.07 | | 0.078 | 2 | 0.01 | | 0.048 | 3 | 0.01 | 14 |
| 15 | 8.0 | 0.227 | 4 S | 0.08 | | 0.078 | 2 | 0.01 | | 0.048 | 2 | 0.01 | 15 |
| 16 | 9.8 | 0.288 | 8 S | 0.20 | | 0.073 | 2 | 0.01 | 4.3 | 0.053 | 1 S | 0 | 16 |
| 17 | | 0.268 | 5 | 0.11 | | 0.070 | 1 | 0.01 | | 0.088 | 1 | 0.01 | 17 |
| 18 | | 0.203 | 3 | 0.05 | | 0.073 | 1 | 0.01 | | 0.080 | 2 | 0.01 | 18 |
| 19 | 11.0 | 0.171 | 3 S | 0.03 | | 0.072 | 1 | 0.01 | | 0.061 | 2 | 0.01 | 19 |
| 20 | | 0.158 | 4 | 0.05 | 7.5 | 0.071 | 1 S | 0.01 | 4.0 | 0.050 | 3 S | 0.01 | 20 |
| 21 | 10.2 | 0.144 | 5 S | 0.06 | | 0.068 | 1 | 0.01 | | 0.050 | 2 | 0.01 | 21 |
| 22 | | 0.139 | 3 | 0.04 | | 0.080 | 2 | 0.01 | 4.0 | 0.048 | 1 S | 0 | 22 |
| 23 | 14.6 | 0.138 | 1 S | 0.01 | | 0.082 | 2 | 0.01 | | 0.048 | 1 | 0 | 23 |
| 24 | | 0.140 | 1 | 0.01 | | 0.068 | 2 | 0.01 | | 0.044 | 2 | 0.01 | 24 |
| 25 | 11.0 | 0.140 | 1 S | 0.01 | 10.0 | 0.065 | 2 S | 0.01 | | 0.044 | 2 | 0.01 | 25 |
| 26 | 12.0 | 0.189 | 2 S | 0.03 | | 0.063 | 2 | 0.01 | | 0.043 | 3 | 0.01 | 26 |
| 27 | | 0.144 | 1 | 0.01 | | 0.060 | 2 | 0.01 | 3.3 | 0.050 | 5 S | 0.02 | 27 |
| 28 | | 0.138 | 1 | 0.01 | | 0.039 | 2 | 0.01 | | 0.050 | 4 | 0.02 | 28 |
| 29 | 11.5 | 0.133 | 0 S | 0 | | 0.058 | 2 | 0.01 | | 0.045 B | 4 | 0.02 | 29 |
| 30 | | 0.128 | 0 | 0 | 8.0 | 0.060 | 2 S | 0.01 | 0.1 | 0.044 B | 5 S | 0.02 | 30 |
| 31 | | 0.124 | 0 | 0 | | 0.060 | 2 | 0.01 | | | | | 31 |
| TOTAL | | 8.336 | | 4.05 | | 2.348 | | 0.38 | | 1.471 | | 0.30 | TOTAL |
| MEAN | | 0.269 | | 0.13 | | 0.075 | | 0.01 | | 0.049 | | 0.01 | MEAN |

SUSPENDED SEDIMENT FOR 1983

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.045 B | 5 | 0.02 | | 0.105 | 7 | 0.06 | | | | | 1 |
| 2 | | 0.050 | 3 | 0.01 | | 0.098 | 7 | 0.06 | | | | | 2 |
| 3 | | 0.053 | 3 | 0.01 | 0.1 | 0.103 B | 7 S | 0.06 | | | | | 3 |
| 4 | | 0.051 | 2 | 0.01 | | | | | | | | | 4 |
| 5 | | 0.050 | 2 | 0.01 | | | | | | | | | 5 |
| 6 | 1.5 | 0.051 | 2 S | 0.01 | | | | | | | | | 6 |
| 7 | | 0.047 | 2 | 0.01 | | | | | | | | | 7 |
| 8 | | 0.043 B | 5 | 0.02 | | | | | | | | | 8 |
| 9 | | 0.044 B | 3 | 0.01 | | | | | | | | | 9 |
| 10 | | 0.041 B | 4 | 0.01 | | | | | | | | | 10 |
| 11 | | 0.043 | 4 | 0.01 | | | | | | | | | 11 |
| 12 | | 0.042 | 4 | 0.01 | | | | | | | | | 12 |
| 13 | | 0.044 | 4 | 0.02 | | | | | | | | | 13 |
| 14 | 0.5 | 0.058 | 11 S | 0.06 | | | | | | | | | 14 |
| 15 | | 0.069 | 9 | 0.07 | | | | | | | | | 15 |
| 16 | | 0.068 B | 7 | 0.04 | | | | | | | | | 16 |
| 17 | | 0.052 | 5 | 0.03 | | | | | | | | | 17 |
| 18 | | 0.052 | 4 | 0.02 | | | | | | | | | 18 |
| 19 | 1.7 | 0.053 | 2 S | 0.01 | | | | | | | | | 19 |
| 20 | | 0.051 | 2 | 0.01 | | | | | | | | | 20 |
| 21 | | 0.057 | 2 | 0.01 | | | | | | | | | 21 |
| 22 | | 0.058 | 1 | 0 | | | | | | | | | 22 |
| 23 | | 0.054 B | 3 | 0.01 | | | | | | | | | 23 |
| 24 | | 0.053 B | 5 | 0.03 | | | | | | | | | 24 |
| 25 | | 0.051 | 3 | 0.01 | | | | | | | | | 25 |
| 26 | | 0.055 | 3 | 0.01 | | | | | | | | | 26 |
| 27 | 0.1 | 0.095 | 6 S | 0.05 | | | | | | | | | 27 |
| 28 | | 0.107 B | 7 | 0.08 | | | | | | | | | 28 |
| 29 | | 0.108 | 7 | 0.07 | | | | | | | | | 29 |
| 30 | | 0.084 | 5 | 0.03 | | | | | | | | | 30 |
| 31 | | 0.095 | 5 | 0.07 | | | | | | | | | 31 |
| TOTAL | | 1.883 | | 0.75 | | | | | | | | | TOTAL |
| MEAN | | 0.061 | | 0.02 | | | | | | | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 278 ON JUN 24
MINIMUM DAILY 0 ON JUL 29

B - ICE CONDITIONS

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 30.5 ON JUN 24
MINIMUM DAILY 0 ON JUL 29

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 08 22 N
LONG 117 15 40 W
DRAINAGE AREA 25.4 $km^2$
NATURAL FLOW

# BRITISH COLUMBIA

## ANDERSON CREEK NEAR NELSON - STATION NO. 08NJ130

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.036 | 3 | 0.01 | | 0.082 | 3 | 0.01 | | 0.108 | 2 | 0.02 | 1 |
| 2 | 2.0 | 0.037 | 2 S | 0.01 | | 0.049 | 2 | 0.01 | | 0.108 | 1 | 0.01 | 2 |
| 3 | | 0.035 | 2 | 0.01 | | 0.050 | 2 | 0.01 | | 0.139 | 1 | 0.01 | 3 |
| 4 | | 0.037 | 1 | 0 | | 0.048 | 2 | 0.01 | | 0.151 | 1 | 0.01 | 4 |
| 5 | | 0.038 | 1 | 0 | | 0.048 | 2 | 0.01 | | 0.148 | 1 | 0.01 | 5 |
| 6 | | 0.037 | 1 | 0 | 1.0 | 0.048 | 1 S | 0 | 3.5 | 0.140 | 1 S | 0.01 | 6 |
| 7 | | 0.037 | 1 | 0 | | 0.048 | 1 | 0 | | 0.139 | 1 | 0.01 | 7 |
| 8 | | 0.050 | 1 | 0 | | 0.045 | 1 | 0 | | 0.140 | 1 | 0.01 | 8 |
| 9 | 2.0 | 0.044 | 0 S | 0 | | 0.048 | 1 | 0 | | 0.178 | 2 | 0.03 | 9 |
| 10 | | 0.048 | 0 | 0 | | 0.046 | 1 | 0 | | 0.317 | 9 | 0.25 | 10 |
| 11 | | 0.047 | 1 | 0 | | 0.044 | 1 | 0 | | 0.358 | 6 | 0.25 | 11 |
| 12 | | 0.048 | 1 | 0 | | 0.052 | 0 | 0 | | 0.308 | 5 | 0.13 | 12 |
| 13 | | 0.048 | 1 | 0 | 2.0 | 0.077 | 0 S | 0 | 3.5 | 0.278 | 4 S | 0.10 | 13 |
| 14 | | 0.047 | 1 | 0 | | 0.078 | 0 | 0 | | 0.255 | 4 | 0.09 | 14 |
| 15 | | 0.043 | 1 | 0 | | 0.078 | 0 | 0 | | 0.232 | 4 | 0.08 | 15 |
| 16 | 2.0 | 0.041 | 1 S | 0 | | 0.078 | 0 | 0 | | 0.212 | 4 | 0.07 | 16 |
| 17 | | 0.042 | 1 | 0 | | 0.078 | 0 | 0 | | 0.184 | 3 | 0.05 | 17 |
| 18 | | 0.040 | 1 | 0 | | 0.088 | 0 | 0 | | 0.178 | 3 | 0.05 | 18 |
| 19 | | 0.038 | 1 | 0 | | 0.084 | 0 | 0 | | 0.184 | 3 | 0.06 | 19 |
| 20 | | 0.040 | 1 | 0 | | 0.082 | 0 | 0 | 3.0 | 0.157 | 3 S | 0.04 | 20 |
| 21 | | 0.039 | 1 | 0 | 3.0 | 0.082 | 1 S | 0.01 | | 0.150 | 3 | 0.04 | 21 |
| 22 | | 0.039 | 1 | 0 | | 0.081 | 1 | 0.01 | | 0.148 | 3 | 0.04 | 22 |
| 23 | 3.0 | 0.038 | 0 S | 0 | | 0.082 | 1 | 0.01 | | 0.141 | 3 | 0.04 | 23 |
| 24 | | 0.038 | 0 | 0 | | 0.098 | 2 | 0.02 | | 0.138 | 3 | 0.04 | 24 |
| 25 | | 0.038 | 1 | 0 | | 0.120 | 5 | 0.05 | | 0.135 | 3 | 0.03 | 25 |
| 26 | | 0.040 | 3 | 0.01 | | 0.118 | 4 | 0.04 | | 0.133 | 3 | 0.03 | 26 |
| 27 | | 0.058 | 5 | 0.03 | 3.0 | 0.110 | 2 S | 0.02 | 3.0 | 0.130 | 3 S | 0.03 | 27 |
| 28 | | 0.072 | 6 | 0.04 | | 0.108 | 2 | 0.02 | | 0.131 | 3 | 0.03 | 28 |
| 29 | | 0.064 | 5 | 0.03 | | | | | | 0.134 | 3 | 0.03 | 29 |
| 30 | 3.0 | 0.058 | 3 S | 0.02 | | | | | 3.5 | 0.145 | 4 S | 0.05 | 30 |
| 31 | | 0.055 | 3 | 0.01 | | | | | | 0.162 | 4 | 0.06 | 31 |
| TOTAL | | 1.374 | | 0.17 | | 2.014 | | 0.23 | | 5.430 | | 1.88 | TOTAL |
| MEAN | | 0.044 | | 0.01 | | 0.072 | | 0.01 | | 0.175 | | 0.06 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.158 | 4 | 0.05 | 5.0 | 0.463 | 3 S | 0.12 | 5.5 | 0.786 | 15 S | 0.98 | 1 |
| 2 | | 0.158 | 4 | 0.05 | 4.5 | 0.474 | 5 S | 0.20 | 5.5 | 0.727 | 17 S | 1.07 | 2 |
| 3 | 4.0 | 0.154 | 4 S | 0.05 | | 0.480 | 8 | 0.25 | 5.5 | 0.668 | 12 S | 0.89 | 3 |
| 4 | | 0.150 | 4 | 0.05 | 4.5 | 0.481 | 5 S | 0.21 | | 0.592 | 8 S | 0.31 | 4 |
| 5 | | 0.150 | 4 | 0.05 | 5.0 | 0.488 | 5 S | 0.21 | 7.0 | 0.543 | 8 S | 0.28 | 5 |
| 6 | 3.5 | 0.150 | 4 S | 0.05 | 4.5 | 0.508 | 7 S | 0.31 | 7.5 | 0.502 | 7 S | 0.30 | 6 |
| 7 | | 0.178 | 5 | 0.08 | 4.5 | 0.538 | 8 | 0.37 | 8.0 | 0.472 | 8 S | 0.24 | 7 |
| 8 | | 0.188 | 10 | 0.17 | 4.0 | 0.535 | 7 S | 0.32 | 7.5 | 0.457 | 8 S | 0.20 | 8 |
| 9 | | 0.183 | 17 | 0.27 | 4.0 | 0.490 | 7 S | 0.30 | 8.0 | 0.438 | 2 S | 0.08 | 9 |
| 10 | 3.0 | 0.173 | 20 S | 0.30 | 4.5 | 0.460 | 7 S | 0.28 | 8.0 | 0.441 | 4 S | 0.15 | 10 |
| 11 | | 0.161 | 15 | 0.21 | 4.5 | 0.441 | 4 S | 0.15 | 7.0 | 0.383 | 3 S | 0.10 | 11 |
| 12 | | 0.152 | 9 | 0.12 | 4.0 | 0.420 | 1 S | 0.04 | 7.0 | 0.352 | 4 S | 0.12 | 12 |
| 13 | 3.0 | 0.143 | 7 S | 0.09 | 5.0 | 0.408 | 2 S | 0.07 | 7.5 | 0.328 | 2 S | 0.08 | 13 |
| 14 | | 0.139 | 7 | 0.08 | 5.0 | 0.408 | 4 S | 0.14 | 8.0 | 0.308 | 1 S | 0.03 | 14 |
| 15 | | 0.137 | 7 | 0.08 | 5.0 | 0.418 | 6 S | 0.22 | 7.0 | 0.328 | 5 S | 0.14 | 15 |
| 16 | | 0.143 | 7 | 0.09 | 5.0 | 0.425 | 3 S | 0.11 | 8.0 | 0.308 | 1 S | 0.03 | 16 |
| 17 | 4.0 | 0.154 | 8 S | 0.11 | 5.0 | 0.443 | 1 S | 0.04 | 8.0 | 0.300 | 3 S | 0.08 | 17 |
| 18 | | 0.161 | 8 | 0.09 | 5.0 | 0.454 | 0 S | 0 | 7.5 | 0.295 | 2 S | 0.05 | 18 |
| 19 | | 0.225 | 7 | 0.14 | 5.0 | 0.454 | 3 S | 0.12 | 8.5 | 0.278 | 1 S | 0.02 | 19 |
| 20 | 4.0 | 0.280 | 9 S | 0.22 | 5.0 | 0.478 | 3 S | 0.12 | 7.0 | 0.265 | 4 S | 0.09 | 20 |
| 21 | | 0.351 | 12 | 0.36 | 4.5 | 0.534 | 3 S | 0.14 | 7.0 | 0.291 | 7 S | 0.18 | 21 |
| 22 | | 0.419 | 14 | 0.51 | | 0.570 | 8 | 0.35 | 8.0 | 0.235 | 2 S | 0.04 | 22 |
| 23 | 4.5 | 0.486 | 17 S | 0.72 | 6.0 | 0.611 | 12 S | 0.63 | 8.0 | 0.264 | 1 S | 0.02 | 23 |
| 24 | 3.5 | 0.645 | 23 S | 1.23 | | 0.892 | 28 S | 1.55 | | 0.205 | 1 S | 0.02 | 24 |
| 25 | 3.5 | 0.898 | 22 S | 1.32 | 5.5 | 0.767 | 40 S | 3.33 | | 0.226 | 1 S | 0.02 | 25 |
| 26 | 4.0 | 0.841 | 9 S | 0.80 | 6.0 | 0.633 | 39 S | 2.61 | | 0.217 | 1 S | 0.02 | 26 |
| 27 | 3.5 | 0.582 | 5 S | 0.25 | 5.0 | 0.841 | 26 S | 1.89 | | 0.205 | 3 S | 0.05 | 27 |
| 28 | 4.0 | 0.538 | 8 S | 0.35 | 5.5 | 0.881 | 58 S | 4.31 | | 0.194 | 8 S | 0.15 | 28 |
| 29 | 4.0 | 0.486 | 9 S | 0.36 | 5.5 | 0.873 | 90 S | 6.78 | | 0.181 | 5 S | 0.10 | 29 |
| 30 | 4.5 | 0.482 | 6 S | 0.24 | 7.0 | 0.875 | 53 S | 4.01 | | 0.295 | 5 S | 0.09 | 30 |
| 31 | | | | | 8.0 | 0.824 | 15 S | 1.07 | | | | | 31 |
| TOTAL | | 8.874 | | 8.14 | | 17.586 | | 30.38 | | 10 975 | | 5.88 | TOTAL |
| MEAN | | 0.289 | | 0.27 | | 0.588 | | 0.98 | | 0.365 | | 0.19 | MEAN |

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.195 | 5 | 0.08 | | 0.084 | 1 | 0.01 | | 0.048 | 0 | 0 | 1 |
| 2 | | 0.188 | 2 | 0.03 | | 0.079 | 3 | 0.02 | | 0.050 | 0 | 0 | 2 |
| 3 | | 0.173 | 1 S | 0.01 | | 0.078 | 4 S | 0.03 | | 0.044 | 0 | 0 | 3 |
| 4 | | 0.162 | 1 | 0.01 | | 0.073 | 4 | 0.03 | | 0.041 | 0 S | 0 | 4 |
| 5 | | 0.150 | 1 | 0.01 | | 0.088 | 3 | 0.02 | | 0.041 | 0 | 0 | 5 |
| 6 | | 0.188 | 1 | | | | | | | | | | |
| 7 | | 0.147 | 2 | 0.01 | | 0.084 | 3 | 0.02 | | 0.039 | 0 | 0 | 6 |
| 8 | | 0.148 | 2 | 0.03 | | 0.081 | 2 S | 0.01 | | 0.038 | 0 | 0 | 7 |
| 9 | | 0.137 | 2 | 0.03 | | 0.058 | 3 | 0.02 | | 0.037 | 1 | 0 | 8 |
| 10 | | 0.138 | 2 S | 0.02 | | 0.057 | 3 | 0.01 | | 0.044 | 1 | 0 | 9 |
| 11 | | 0.124 | 2 | 0.02 | | 0.083 | 4 S | 0.02 | | 0.042 | 2 | 0.01 | 10 |
| 12 | | 0.139 | 5 | 0.06 | | 0.089 | 4 | 0.02 | | | | | |
| 13 | | 0.182 | 8 S | 0.06 | | 0.088 | 3 | 0.02 | | 0.043 | 2 S | 0.01 | 11 |
| 14 | | 0.188 | 5 | 0.07 | | 0.058 | 2 | 0.01 | | 0.040 | 2 | 0.01 | 12 |
| 15 | | 0.182 | 3 | 0.04 | | 0.055 | 1 S | 0 | | 0.039 | 2 | 0.01 | 13 |
| | | | | | | 0.052 | 1 | 0 | | 0.041 | 3 | 0.01 | 14 |
| 16 | | 0.148 | 2 | 0.03 | | | | | | 0.038 | 3 | 0.01 | 15 |
| 17 | | 0.140 | 1 S | 0.01 | | 0.050 | 1 | 0 | | | | | |
| 18 | | 0.132 | 0 | 0 | | 0.049 | 1 S | 0 | | 0.035 | 3 | 0.01 | 16 |
| 19 | | 0.128 | 1 | 0.01 | | 0.048 | 1 | 0 | | 0.034 | 4 | 0.01 | 17 |
| 20 | | 0.133 | 4 S | 0.05 | | 0.044 | 1 | 0 | | 0.033 | 5 S | 0.01 | 18 |
| | | | | | | 0.041 | 2 | 0.01 | | 0.032 | 6 | 0.02 | 19 |
| 21 | | 0.127 | 2 | 0.02 | | | | | | 0.033 | 6 | 0.02 | 20 |
| 22 | | 0.114 | 2 | 0.02 | | 0.038 | 2 S | 0.01 | | | | | |
| 23 | | 0.107 | 1 | 0.01 | | 0.037 | 2 | 0.01 | | 0.032 | 5 | 0.02 | 21 |
| 24 | | 0.106 | 2 S | 0.02 | | 0.038 | 2 | 0.01 | | 0.032 | 6 | 0.02 | 22 |
| 25 | | 0.117 | 3 | 0.03 | | 0.074 | 3 S | 0.02 | | 0.031 | 6 | 0.02 | 23 |
| | | | | | | 0.061 | 1 | 0.01 | | 0.028 | 7 | 0.02 | 24 |
| 26 | | 0.138 | 3 | 0.03 | | | | | | 0.030 | 7 S | 0.02 | 25 |
| 27 | | 0.104 | 2 S | 0.02 | | 0.084 | 2 | 0.01 | | | | | |
| 28 | | 0.103 | 1 | 0.01 | | 0.082 | 3 S | 0.01 | | 0.028 | 5 | 0.02 | 26 |
| 29 | | 0.087 | 1 | 0.01 | | 0.068 | 5 | 0.02 | | 0.028 | 5 | 0.01 | 27 |
| 30 | | 0.090 | 1 | 0.01 | | 0.065 | 3 | 0.01 | | 0.026 | 5 | 0.01 | 28 |
| 31 | | 0.088 | 0 S | 0 | | 0.065 | 1 | 0 | | 0.028 | 5 | 0.01 | 29 |
| | | | | | | 0.063 | 0 | 0 | | 0.026 | 4 | 0.01 | 30 |
| TOTAL | | 4.142 | | 0.80 | | 1.756 | | 0.38 | | 1.078 | | 0.28 | TOTAL |
| MEAN | | 0.134 | | 0.03 | | 0.056 | | 0.01 | | 0.036 | | 0.01 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.026 | 3 | 0.01 | | | | | | 0.050 | 5 | 0.03 | 1 |
| 2 | 8.0 | 0.027 | 3 S | 0.01 | | 0.034 | 2 | 0.01 | | 0.050 | 6 | 0.03 | 2 |
| 3 | | 0.026 | 3 | 0.01 | | 0.036 | 3 | 0.01 | | 0.051 | 7 | 0.04 | 3 |
| 4 | | 0.028 | 2 | 0.01 | | 0.052 | 7 | 0.08 | | 0.057 | 7 S | 0.03 | 4 |
| 5 | | 0.028 | 2 | 0 | | 0.056 | 2 | 0.02 | 2.0 | 0.056 | 5 | 0.02 | 5 |
| | | | | | | 0.076 | 1 | 0.01 | | | | | |
| 6 | | 0.028 | 2 | 0 | | | | | | 0.054 | 4 | 0.02 | 6 |
| 7 | | 0.026 | 1 | 0 | 5.0 | 0.075 | 1 S | 0.01 | | 0.053 | 3 | 0.01 | 7 |
| 8 | | 0.026 | 1 | 0 | | 0.071 | 1 | 0.01 | | 0.053 | 2 | 0.01 | 8 |
| 9 | 7.0 | 0.026 | 1 S | 0 | | 0.068 | 1 | 0.01 | | 0.054 | 2 | 0.01 | 9 |
| 10 | | 0.026 | 1 | 0 | | 0.068 | 1 | 0.01 | | 0.056 | 2 | 0.01 | 10 |
| | | | | | | 0.080 | 0 | 0 | | | | | |
| 11 | | 0.025 | 1 | 0 | | | | | | 0.055 | 2 | 0.01 | 11 |
| 12 | | 0.024 | 1 | 0 | | 0.082 | 1 | 0.01 | 2.0 | 0.053 | 2 S | 0.01 | 12 |
| 13 | | 0.024 | 1 | 0 | | 0.081 | 1 | 0.01 | | 0.053 | 2 | 0.01 | 13 |
| 14 | | 0.023 | 1 | 0 | 5.5 | 0.075 | 1 S | 0.01 | | 0.055 | 2 | 0.01 | 14 |
| 15 | | 0.023 | 1 | 0 | | 0.071 | 0 | 0 | | 0.056 | 2 | 0.01 | 15 |
| | | | | | | 0.076 | 1 | 0.01 | | | | | |
| 16 | 7.0 | 0.021 | 1 S | 0 | | | | | | 0.051 | 2 | 0.01 | 16 |
| 17 | | 0.021 | 1 | 0 | | 0.086 | 1 | 0.01 | | 0.049 | 1 | 0 | 17 |
| 18 | | 0.022 | 1 | 0 | | 0.108 | 2 | 0.02 | 2.0 | 0.048 | 1 S | 0 | 18 |
| 19 | | 0.023 | 2 | 0 | | 0.104 | 3 | 0.03 | | 0.048 | 2 | 0.01 | 19 |
| 20 | | 0.023 | 1 | 0 | | 0.083 | 2 | 0.02 | | 0.044 | 2 | 0.01 | 20 |
| | | | | | 4.5 | 0.068 | 1 S | 0.01 | | | | | |
| 21 | | 0.024 | 1 | 0 | | | | | | 0.043 | 3 | 0.01 | 21 |
| 22 | | 0.040 | 3 | 0.01 | | 0.078 | 1 | 0.01 | | 0.043 | 3 | 0.01 | 22 |
| 23 | 5.0 | 0.034 | 1 S | 0 | | 0.074 | 2 | 0.01 | | 0.041 | 4 | 0.01 | 23 |
| 24 | | 0.028 | 1 | 0 | | 0.072 | 2 | 0.01 | | 0.041 | 4 | 0.01 | 24 |
| 25 | | 0.027 | 1 | 0 | | 0.071 | 2 | 0.01 | 2.0 | 0.042 | 5 S | 0.02 | 25 |
| | | | | | | 0.072 | 3 | 0.02 | | | | | |
| 26 | | 0.027 | 1 | 0 | | | | | | 0.041 | 5 | 0.02 | 26 |
| 27 | | 0.026 | 1 | 0 | | 0.088 | 3 | 0.02 | | 0.040 | 4 | 0.01 | 27 |
| 28 | | 0.026 | 1 | 0 | 4.0 | 0.085 | 4 S | 0.02 | | 0.042 | 4 | 0.01 | 28 |
| 29 | | 0.026 | 1 | 0 | | 0.085 | 4 | 0.02 | | 0.041 | 3 | 0.01 | 29 |
| 30 | 5.0 | 0.027 | 1 S | 0 | | 0.084 | 5 | 0.03 | | 0.041 | 3 | 0.01 | 30 |
| 31 | | 0.032 | 1 | 0 | | 0.081 | 5 | 0.03 | | 0.043 | 2 | 0.01 | 31 |
| TOTAL | | 0.814 | | 0.05 | | 2.328 | | 0.48 | | 1.531 | | 0.02 | TOTAL |
| MEAN | | 0.026 | | 0 | | 0.076 | | 0.02 | | 0.049 | | 0.01 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 10 | |
| MAXIMUM DAILY | 88 | 08 MAY 29 |
| MINIMUM DAILY | 0 | 08 JAN 08 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 0.13 | |
| MAXIMUM DAILY | 8.70 | 08 MAY 29 |
| MINIMUM DAILY | 0 | 08 JAN 04 |

TOTAL SUSPENDED SEDIMENT LOAD 46.05 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 30 05 N
LONG 117 15 35 W
DRAINAGE AREA 0.07 $km^2$
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA MINISTRY OF ENVIRONMENT

BRITISH COLUMBIA

ARROW CREEK NEAR ERICKSON - STATION NO. 08NN084

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.480 E | 0 | 0 | | 0.817 | 2 | 0.11 | | 1.03 | 2 | 0.18 | 1 |
| 2 | | 0.470 E | 0 | 0 | | 0.816 | 2 | 0.11 | | 1.08 | 2 | 0.19 | 2 |
| 3 | | 0.480 E | 0 | 0 | | 0.811 | 2 | 0.11 | | 1.20 | 2 | 0.21 | 3 |
| 4 | | 0.500 E | 0 | 0 | | 0.580 E | 1 | 0.05 | | 1.34 | 2 | 0.35 | 4 |
| 5 | | 0.530 E | 1 | 0.04 | | 0.550 E | 1 | 0.05 | | 1.28 | 2 | 0.33 | 5 |
| 6 | 1.0 | 0.530 E | 2 S | 0.09 | | 0.530 E | 0 | 0 | | 1.22 | 2 | 0.33 | 6 |
| 7 | | 0.542 | 2 | 0.09 | | 0.530 E | 0 | 0 | | 1.16 | 2 | 0.30 | 7 |
| 8 | | 0.588 | 2 | 0.43 | | 0.540 E | 0 | 0 | | 1.15 | 2 | 0.20 | 8 |
| 9 | | 0.788 | 3 | 0.20 | | 0.548 | 0 | 0 | 3.5 | 1.29 | 2 S | 0.22 | 9 |
| 10 | | 0.713 | 3 | 0.18 | | 0.548 | 0 | 0 | | 2.12 | 4 | 0.73 | 10 |
| 11 | | 0.722 | 2 | 0.12 | 2.0 | 0.564 | 0 S | 0 | | 2.28 | 3 | 0.58 | 11 |
| 12 | | 0.710 | 2 | 0.12 | | 0.824 | 1 | 0.05 | | 2.06 | 2 | 0.36 | 12 |
| 13 | | 0.688 | 2 | 0.12 | | 0.837 | 2 | 0.11 | 3.0 | 1.94 | 2 S | 0.34 | 13 |
| 14 | | 0.670 | 2 | 0.12 | | 0.823 | 2 | 0.11 | | 1.62 | 2 | 0.31 | 14 |
| 15 | | 0.550 | 1 | 0.05 | | 0.835 | 2 | 0.11 | | 1.70 | 2 | 0.38 | 15 |
| 16 | | 0.544 | 1 | 0.05 | | 0.848 | 2 | 0.11 | | 1.64 | 2 | 0.28 | 16 |
| 17 | | 0.539 | 1 | 0.05 | | 0.852 | 2 | 0.11 | 3.0 | 1.59 | 4 S | 0.65 | 17 |
| 18 | | 0.535 | 1 | 0.05 | | 0.868 | 2 | 0.12 | | 1.48 | 3 | 0.39 | 18 |
| 19 | | 0.526 | 1 | 0.05 | | 0.893 | 2 | 0.12 | | 1.39 | 2 | 0.24 | 19 |
| 20 | | 0.517 | 1 | 0.05 | | 0.706 | 2 | 0.12 | 2.0 | 1.30 | 1 S | 0.11 | 20 |
| 21 | | 0.568 | 1 | 0.05 | | 0.716 | 2 | 0.12 | | 1.27 | 1 | 0.11 | 21 |
| 22 | | 0.586 | 1 | 0.05 | | 0.715 | 2 | 0.12 | | 1.21 | 1 | 0.10 | 22 |
| 23 | | 0.592 | 1 | 0.05 | | 0.732 | 2 | 0.13 | | 1.20 | 1 | 0.10 | 23 |
| 24 | | 0.581 | 1 | 0.05 | | 0.829 | 2 | 0.14 | | 1.20 | 0 | 0 | 24 |
| 25 | | 0.576 | 1 | 0.05 | | 1.07 | 2 | 0.18 | 4.0 | 1.19 | 0 S | 0 | 25 |
| 26 | | 0.571 | 1 | 0.05 | | 1.08 | 2 | 0.18 | | 1.18 | 1 | 0.10 | 26 |
| 27 | | 0.559 | 3 | 0.17 | | 1.05 | 2 | 0.18 | | 1.15 | 2 S | 0.20 | 27 |
| 28 | | 0.570 | 2 | 0.12 | | 1.04 | 2 | 0.18 | | 1.14 | 2 | 0.20 | 28 |
| 29 | | 0.560 | 2 | 0.11 | | | | | | 1.14 | 2 | 0.20 | 29 |
| 30 | | 0.525 | 2 | 0.11 | | | | | | 1.19 | 2 | 0.21 | 30 |
| 31 | | 0.529 | 2 | 0.11 | | | | | | 1.16 | 2 | 0.20 | 31 |
| TOTAL | | 19.278 | | 2.76 | | 18.384 | | 2.83 | | 43.18 | | 7.81 | TOTAL |
| MEAN | | 0.622 | | 0.09 | | 0.891 | | 0.09 | | 1.39 | | 0.25 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 1.19 | 1 S | 0.10 | 6.0 | 4.39 | 5 S | 1.90 | 7.0 | 11.5 | 41 | 40.7 | 1 |
| 2 | | 1.20 | 1 | 0.10 | | 4.22 | 3 | 1.13 | | 10.5 | 31 | 28.1 | 2 |
| 3 | 3.0 | 1.18 | 1 S | 0.10 | 5.0 | 4.46 | 3 S | 1.18 | 7.0 | 9.46 | 18 S | 14.7 | 3 |
| 4 | | 1.17 | 1 | 0.10 | | 3.78 | 2 | 0.85 | | 8.05 | 12 | 8.35 | 4 |
| 5 | | 1.16 | 1 | 0.10 | 6.0 | 4.12 | 3 S | 1.43 | | 7.44 | 11 | 7.07 | 5 |
| 6 | | 1.23 | 1 | 0.11 | | 4.25 | 3 | 1.13 | 8.5 | 7.36 | 10 S | 6.36 | 6 |
| 7 | 3.0 | 1.44 | 1 S | 0.12 | 5.0 | 4.48 | 3 S | 1.16 | | 7.57 | 11 | 7.19 | 7 |
| 8 | | 1.43 | 1 | 0.12 | | 4.47 | 5 | 1.93 | 8.0 | 7.89 | 17 S | 11.3 | 8 |
| 9 | | 1.40 | 1 | 0.12 | 5.0 | 4.25 | 4 S | 1.47 | | 7.46 | 18 | 11.6 | 9 |
| 10 | 3.0 | 1.33 | 2 S | 0.23 | | 3.78 | 2 | 0.88 | 8.0 | 7.52 | 22 S | 14.3 | 10 |
| 11 | | 1.26 | 2 | 0.22 | | 3.80 | 3 | 0.82 | | 8.38 | 18 | 8.62 | 11 |
| 12 | | 1.21 | 1 | 0.10 | 5.0 | 3.88 | 1 S | 0.33 | 7.0 | 4.68 | 7 S | 2.64 | 12 |
| 13 | | 1.16 | 1 | 0.10 | 4.0 | 3.71 | 2 S | 0.64 | | 4.38 | 8 | 2.27 | 13 |
| 14 | 4.0 | 1.21 | 1 S | 0.10 | | 3.85 | 3 | 1.00 | 5.0 | 4.30 | 5 S | 1.88 | 14 |
| 15 | 3.0 | 1.38 | 0 S | 0 | 7.0 | 4.19 | 4 S | 1.48 | 7.5 | 4.50 | 4 S | 1.55 | 15 |
| 16 | | 1.42 | 2 | 0.25 | | 4.42 | 4 | 1.53 | 8.0 | 3.78 | 4 S | 1.31 | 16 |
| 17 | 5.0 | 1.54 | 3 S | 0.40 | | 4.48 | 4 | 1.55 | | 3.43 | 4 | 1.18 | 17 |
| 18 | | 1.67 | 6 | 0.97 | | 5.12 | 4 | 1.77 | | 3.44 | 4 | 1.19 | 18 |
| 19 | | 2.28 | 9 | 1.75 | 5.0 | 4.97 | 3 S | 1.28 | 5.0 | 3.20 | 3 S | 0.83 | 19 |
| 20 | | 2.54 | 12 | 2.83 | | 5.11 | 4 | 1.77 | | 2.89 | 4 | 1.03 | 20 |
| 21 | 5.0 | 2.68 | 15 S | 3.73 | | 6.39 | 11 | 7.07 | 5.0 | 2.78 | 4 S | 0.93 | 21 |
| 22 | | 3.32 | 13 | 3.44 | 5.0 | 10.2 | 18 S | 15.9 | | 2.67 | 3 | 0.88 | 22 |
| 23 | 4.0 | 4.64 | 14 S | 5.37 | | 11.8 | 28 | 28.1 | 5.0 | 3.40 | 5 S | 1.47 | 23 |
| 24 | | 9.21 | 25 | 19.9 | 5.0 | 12.5 | 30 S | 32.4 | | 3.88 | 8 | 2.90 | 24 |
| 25 | 4.0 | 12.1 | 31 S | 32.4 | | 14.0 | 42 | 50.8 | 5.0 | 3.17 | 1 S | 0.27 | 25 |
| 26 | | 8.87 | 16 | 13.8 | 5.0 | 16.1 | 48 S | 66.6 | | 2.97 | 1 | 0.26 | 26 |
| 27 | 5.0 | 8.07 | 6 S | 4.20 | 5.0 | 17.0 | 51 | 74.8 | 5.0 | 2.88 | 0 S | 0 | 27 |
| 28 | | 4.71 | 8 | 3.44 | | 17.8 | 49 | 75.6 | | 2.79 | 0 | 0 | 28 |
| 29 | 5.0 | 4.23 | 5 S | 1.83 | 5.0 | 16.2 | 49 S | 77.1 | 5 S | 2.71 | 1 S | 0.23 | 29 |
| 30 | | 4.38 | 5 | 1.84 | | 17.0 | 50 | 73.4 | | 2.74 | 1 | 0.24 | 30 |
| 31 | | | | | | 13.8 | 45 | 48.0 | | | | | 31 |
| TOTAL | | 88.85 | | 93.87 | | 240.98 | | 574.88 | | 195.83 | | 178.79 | TOTAL |
| MEAN | | 2.89 | | 3.02 | | 7.77 | | 18.5 | | 6.18 | | 5.96 | MEAN |

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.47 | 0 | 0 | | 1.83 | 1 | 0.16 | | 0.780 | 1 | 0.07 | 1 |
| 2 | | 2.70 | 1 | 0.23 | | 1.82 | 1 | 0.13 | | 0.781 | 1 | 0.07 | 2 |
| 3 | 7.0 | 2.84 | 1 S | 0.23 | | 1.65 | 0 | 0 | | 0.784 | 1 | 0.07 | 3 |
| 4 | | 2.40 | 0 | 0 | | 1.39 | 0 | 0 | 10.0 | 0.787 | 1 S | 0.07 | 4 |
| 5 | | 2.28 | 0 | 0 | | 1.32 | 0 | 0 | | 0.784 | 1 | 0.07 | 5 |
| 6 | | 2.23 | 0 | 0 | | | | | | | | | |
| 7 | | 2.12 | 0 | 0 | | 1.26 | 0 | 0 | | 0.724 | 1 | 0.06 | 6 |
| 8 | | 2.11 | 1 | 0.18 | | 1.19 | 0 | 0 | | 0.722 | 1 | 0.06 | 7 |
| 9 | | 1.98 | 0 | 0 | | 1.16 | 0 | 0 | | 0.681 | 0 | 0 | 8 |
| 10 | 10.0 | 1.88 | 0 S | 0 | | 1.11 | 0 | 0 | | 0.688 | 0 | 0 | 9 |
| 11 | | 1.78 | 0 | 0 | 13.0 | 1.10 | 0 S | 0 | | 0.704 | 0 | 0 | 10 |
| 12 | | 1.78 | 0 | 0 | | 1.38 | 3 | 0.35 | | | | | |
| 13 | | 2.61 | 13 | 2.82 | | 1.43 | 3 | 0.37 | | 0.783 | 1 | 0.07 | 11 |
| 14 | | 3.88 | 10 | 3.35 | | 1.15 | 1 | 0.10 | | 0.698 | 1 | 0.06 | 12 |
| 15 | | 3.36 | 1 | 0.29 | 14.0 | 1.07 | 0 S | 0 | 9.0 | 0.673 | 0 S | 0 | 13 |
| 16 | | 3.16 | 1 | 0.27 | | 1.02 | 0 | 0 | | 0.684 | 0 | 0 | 14 |
| 17 | | 2.98 | 1 | 0.26 | 14.0 | 0.982 | 0 S | 0 | | 0.639 | 0 | 0 | 15 |
| 18 | | 2.72 | 1 | 0.24 | | 0.910 | 0 | 0 | | 0.642 | 0 | 0 | |
| 19 | 12.0 | 2.61 | 1 S | 0.32 | | 0.874 | 1 | 0 | | 0.657 | 1 | 0.06 | 16 |
| 20 | 9.0 | 2.39 | 2 S | 0.82 | | 0.848 | 1 | 0.08 | 7.0 | 0.626 | 1 S | 0.05 | 17 |
| 21 | | 2.23 | 2 | 0.38 | | 0.804 | 1 | 0.07 | | 0.618 | 1 | 0.05 | 18 |
| 22 | | 2.07 | 1 | 0.18 | 11.0 | 0.778 | 1 S | 0.07 | | 0.614 | 1 | 0.05 | 19 |
| 23 | | 1.95 | 1 | 0.17 | | 0.783 | 1 | 0.07 | | | | | 20 |
| 24 | | 1.93 | 1 | 0.17 | | 0.868 | 1 | 0.07 | | 0.616 | 1 | 0.05 | 21 |
| 25 | 10.0 | 2.23 | 11 S | 2.13 | | 1.26 | 7 | 0.77 | | 0.589 | 1 | 0.06 | 22 |
| 26 | | 2.25 | 6 | 1.56 | | 0.975 | 2 | 0.17 | | 0.581 | 1 | 0.05 | 23 |
| 27 | | 2.02 | 3 | 0.52 | | 0.883 | 2 | 0.17 | | 0.574 | 1 | 0.05 | 24 |
| 28 | | 1.84 | 2 | 0.34 | | 0.852 | 1 | 0.08 | | | | 0.05 | 25 |
| 29 | | 1.84 | 2 | 0.32 | 13.0 | 0.864 | 1 | 0.07 | | 0.589 | 1 | 0.05 | 26 |
| 30 | | 1.76 | 1 | 0.15 | | 0.810 | 1 S | 0.07 | | 0.573 | 1 | 0.05 | 27 |
| 31 | 10.0 | 1.67 | 1 S | 0.14 | | 0.780 | 1 | 0.07 | 6.0 | 0.546 | 1 | 0.05 | 28 |
| TOTAL | | 71.73 | | 14.77 | | 0.768 | 1 | 0.07 | | 0.540 | 1 S | 0.05 | 29 |
| MEAN | | 2.31 | | 0.48 | | 33.258 | | 2.88 | | 0.548 | 1 | 0.05 | 30 |
| | | | | | | 1.07 | | 0.10 | | 18.672 | | 1.31 | 31 |
| | | | | | | | | | | 0.864 | | 0.04 | TOTAL MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.548 | 1 | 0.05 | | 0.602 | 2 | 0.10 | 0.1 | 0.880 B | 2 S | 0.12 | 1 |
| 2 | 5.0 | 0.538 | 1 S | 0.05 | | 0.896 | 3 | 0.18 | | 0.840 B | 1 | 0.08 | 2 |
| 3 | | 0.524 | 1 | 0.05 | | 1.49 | 8 | 0.18 | | 0.850 B | 1 | 0.08 | 3 |
| 4 | | 0.548 | 1 | 0.05 | | 3.05 | 17 | 4.48 | | 0.850 B | 1 | 0.08 | 4 |
| 5 | | 0.523 | 1 | 0.05 | | 1.69 | 7 | 1.14 | | 0.870 B | 0 | 0 | 5 |
| 6 | | 0.504 | 1 | 0.04 | 4.0 | 1.69 | 3 S | 0.44 | | 0.880 B | 0 | 0 | 6 |
| 7 | | 0.507 | 1 | 0.04 | | 1.54 | 3 | 0.40 | | 0.850 B | 1 | 0.06 | 7 |
| 8 | | 0.498 | 2 | 0.09 | | 1.40 | 3 | 0.36 | | 0.850 B | 0 | 0 | 8 |
| 9 | 5.0 | 0.503 | 2 S | 0.09 | | 1.26 | 4 | 0.44 | | 0.850 B | 0 | 0 | 9 |
| 10 | | 0.498 | 2 | 0.09 | 4.0 | 1.22 | 4 S | 0.42 | | 0.884 | 0 | 0 | 10 |
| 11 | | 0.488 | 1 | 0.04 | | 1.25 | 4 | 0.42 | | 0.845 | 0 | 0 | 11 |
| 12 | | 0.481 | 1 | 0.04 | | 1.31 | 4 | 0.42 | | 0.826 | 0 | 0 | 12 |
| 13 | | 0.476 | 1 | 0.04 | | 1.22 | 4 | 0.42 | | 0.831 | 1 | 0.06 | 13 |
| 14 | | 0.476 | 1 | 0.04 | | 1.17 | 4 | 0.40 | | 0.818 | 0 | 0 | 14 |
| 15 | | 0.481 | 1 | 0.04 | | 1.18 | 4 | 0.41 | | 0.802 | 0 | 0 | 15 |
| 16 | 5.0 | 0.470 | 1 S | 0.04 | | 1.19 | 4 | 0.41 | | 0.788 | 0 | 0 | 16 |
| 17 | | 0.462 | 1 | 0.04 | | 1.25 | 5 | 0.54 | | 0.570 B | 0 | 0 | 17 |
| 18 | | 0.478 | 2 | 0.08 | | 1.23 | 5 | 0.53 | | 0.570 B | 0 | 0 | 18 |
| 19 | | 0.478 | 2 | 0.08 | | 1.16 | 4 | 0.41 | | 0.580 B | 0 | 0 | 19 |
| 20 | | 0.504 | 2 | 0.09 | | 1.16 | 4 | 0.40 | | 0.550 B | 0 | 0 | 20 |
| 21 | 5.0 | 0.480 | 2 S | 0.08 | | 1.08 | 4 | 0.37 | | 0.530 B | 0 | 0 | 21 |
| 22 | | 0.882 | 6 | 0.38 | | 1.03 | 4 | 0.38 | | 0.530 B | 1 | 0.06 | 22 |
| 23 | 5.0 | 0.736 | 3 S | 0.18 | | 0.978 | 3 | 0.26 | | 0.510 B | 1 | 0.04 | 23 |
| 24 | | 0.578 | 2 | 0.10 | | 0.953 | 4 | 0.33 | | 0.530 B | 0 | 0 | 24 |
| 25 | | 0.540 | 2 | 0.09 | | 0.845 | 3 | 0.24 | | 0.560 B | 0 | 0 | 25 |
| 26 | | 0.511 | 2 | 0.08 | | 0.878 | 3 | 0.23 | | 0.600 B | 0 | 0 | 26 |
| 27 | | 0.488 | 2 | 0.08 | | 0.888 | 3 | 0.22 | | 0.810 B | 1 | 0.06 | 27 |
| 28 | | 0.485 | 2 | 0.08 | | 0.778 | 3 | 0.20 | | 0.580 B | 1 | 0.06 | 28 |
| 29 | | 0.488 | 2 | 0.08 | | 0.747 | 2 | 0.13 | | 0.570 B | 0 | 0 | 29 |
| 30 | 4.0 | 0.538 | 2 S | 0.14 | | 0.738 | 2 | 0.13 | | 0.580 B | 0 | 0 | 30 |
| 31 | | 0.530 | 3 | 0.15 | | | | | | 0.810 B | 0 | 0 | 31 |
| TOTAL | | 18.385 | | 2.61 | | 35.859 | | 15.85 | | 18.784 | | 0.80 | TOTAL |
| MEAN | | 0.527 | | 0.08 | | 1.20 | | 0.53 | | 0.868 | | 0.02 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | |
|---|---|
| MEAN | 16 |
| MAXIMUM DAILY | 61 ON MAY 27 |
| MINIMUM DAILY | 0 ON JAN 01 |

E - ICE CONDITIONS

SUSPENDED SEDIMENT LOAD(t/d)

| | |
|---|---|
| MEAN | 2.47 |
| MAXIMUM DAILY | 77.1 ON MAY 29 |
| MINIMUM DAILY | 0 ON JAN 01 |

B - SAMPLE(S) COLLECTED THIS DAY

TOTAL SUSPENDED SEDIMENT LOAD 901.67 t

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 09 22 N
LONG 116 37 04 W
DRAINAGE AREA 78.7 $km^2$
NATURAL FLOW

BRITISH COLUMBIA

CARNATION CREEK AT THE MOUTH - STATION NO. 08HB048

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.5 | 0.387 | 2 | 0.08 | 5.0 | 0.298 | 3 S | 0.08 | 5.5 | 0.388 | 5 S | 0.17 | 1 |
| 2 | 5.0 | 2.28 | 3 S | 0.59 | 5.5 | 0.380 | 2 S | 0.04 | 6.5 | 0.297 | 3 S | 0.08 | 2 |
| 3 | 5.5 | 2.01 | 2 S | 0.49 | 5.0 | 0.327 | 2 S | 0.04 | 7.0 | 0.261 | 2 S | 0.05 | 3 |
| 4 | 5.0 | 2.72 | 1 S | 0.24 | 4.5 | 0.201 | 4 S | 0.07 | 6.0 | 0.195 | 4 S | 0.07 | 4 |
| 5 | 5.2 | 2.16 | 2 S | 0.37 | 5.0 | 0.188 | 2 S | 0.03 | 5.5 | 0.170 | 7 S | 0.10 | 5 |
| 6 | 5.3 | 1.18 | 2 S | 0.20 | 5.5 | 0.278 | 5 | 0.18 | 7.0 | 0.173 | 7 | 0.10 | 6 |
| 7 | 5.3 | 5.34 | 17 S | 13.7 | 5.5 | 0.788 | 5 S | 0.40 | 7.5 | 0.324 | 5 S | 0.25 | 7 |
| 8 | 5.5 | 2.91 | 4 S | 2.70 | 5.0 | 0.430 | 3 S | 0.11 | 7.5 | 3.78 | 14 S | 5.85 | 8 |
| 9 | 5.1 | 6.80 | 18 S | 0.13 | 5.0 | 2.22 | 4 S | 0.77 | 6.0 | 7.42 | 15 S | 9.52 | 9 |
| 10 | 5.4 | 5.85 | 11 S | 0.40 | 5.0 | 4.01 | 3 S | 1.04 | 7.5 | 2.78 | 3 S | 0.72 | 10 |
| 11 | 7.0 | 4.71 | 8 S | 2.44 | 7.5 | 20.0 | 49 S | 84.7 | 7.5 | 1.72 | 2 S | 0.30 | 11 |
| 12 | 7.0 | 2.63 | 3 S | 0.88 | 7.5 | 5.01 | 10 S | 4.33 | 7.5 | 1.38 | 2 S | 0.22 | 12 |
| 13 | 6.0 | 1.47 | 1 S | 0.13 | 8.0 | 3.38 | 3 S | 0.88 | 7.1 | 2.38 | 2 S | 0.41 | 13 |
| 14 | 5.5 | 0.881 | 2 S | 0.11 | 7.0 | 2.73 | 2 S | 0.47 | 7.0 | 5.46 | 4 S | 1.88 | 14 |
| 15 | 5.0 | 0.456 | 0 S | 0 | 7.0 | 1.58 | 1 S | 0.13 | 8.2 | 1.42 | 1 S | 0.12 | 15 |
| 16 | 5.5 | 0.380 | 0 | 0 | 7.5 | 3.08 | 5 S | 0.89 | 8.5 | 0.804 | 1 S | 0.05 | 16 |
| 17 | 6.2 | 0.588 | 1 S | 0.05 | 8.0 | 5.08 | 8 S | 4.19 | 8.5 | 0.382 | 2 S | 0.07 | 17 |
| 18 | 7.5 | 5.24 | 6 S | 2.70 | 7.0 | 2.85 | 2 S | 0.68 | 8.3 | 0.262 | 1 S | 0.02 | 18 |
| 19 | 7.0 | 2.85 | 5 S | 1.14 | 7.0 | 4.02 | 3 S | 1.74 | 8.1 | 0.218 | 1 S | 0.02 | 19 |
| 20 | 6.0 | 0.835 | 3 S | 0.24 | 7.0 | 3.76 | 1 S | 0.33 | 8.8 | 0.182 | 2 | 0.03 | 20 |
| 21 | 5.5 | 0.548 | 2 S | 0.08 | 8.0 | 0.840 | 2 S | 0.18 | 7.5 | 0.187 | 3 S | 0.04 | 21 |
| 22 | 5.5 | 0.404 | 3 S | 0.10 | 7.0 | 1.20 | 3 S | 0.21 | 7.5 | 0.144 | 3 S | 0.04 | 22 |
| 23 | 6.0 | 0.344 | 1 | 0.03 | 6.0 | 5.50 | 2 S | 0.85 | 8.0 | 0.171 | 2 | 0.03 | 23 |
| 24 | 6.2 | 2.15 | 6 S | 1.49 | 7.1 | 2.81 | 4 S | 0.95 | 8.5 | 0.188 | 2 | 0.03 | 24 |
| 25 | 6.5 | 3.83 | 7 S | 2.31 | 7.5 | 0.892 | 2 S | 0.26 | 7.5 | 0.142 | 1 S | 0.01 | 25 |
| 26 | 6.5 | 4.48 | 6 S | 2.33 | 7.0 | 1.41 | 4 S | 0.49 | 7.5 | 0.175 | 0 S | 0 | 26 |
| 27 | 7.2 | 1.86 | 3 S | 0.49 | 6.5 | 1.26 | 4 S | 0.44 | 7.0 | 0.829 | 4 | 0.32 | 27 |
| 28 | 8.0 | 0.788 | 3 S | 0.20 | 8.0 | 0.569 | 5 S | 0.24 | 8.5 | 1.76 | 2 S | 0.30 | 28 |
| 29 | 8.5 | 0.482 | 2 S | 0.06 | | | | | 7.0 | 1.88 | 1 S | 0.18 | 29 |
| 30 | 8.5 | 0.409 | 2 | 0.07 | | | | | 7.0 | 3.02 | 2 S | 0.78 | 30 |
| 31 | 7.0 | 0.384 | 3 S | 0.09 | | | | | 6.2 | 1.81 | 0 S | 0 | 31 |
| TOTAL | | 77.817 | | 51.83 | | 74.722 | | 104.51 | | 39.731 | | 21.76 | TOTAL |
| MEAN | | 2.50 | | 1.67 | | 2.67 | | 3.73 | | 1.28 | | 0.70 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.7 | 1.53 | 0 S | 0 | 10.5 | 0.069 | 1 | 0.01 | 14.0 | 0.041 | 1 S | 0 | 1 |
| 2 | 8.5 | 3.42 | 1 S | 0.31 | 10.0 | 0.064 | 1 S | 0.01 | 12.5 | 0.040 | 1 S | 0 | 2 |
| 3 | 8.0 | 1.42 | 0 S | 0 | 10.0 | 0.068 | 0 S | 0 | 12.0 | 0.037 | 2 S | 0.01 | 3 |
| 4 | 8.0 | 0.589 | 0 S | 0 | 9.5 | 0.090 | 0 S | 0 | 12.0 | 0.038 | 2 S | 0.01 | 4 |
| 5 | 8.5 | 0.378 | 0 S | 0 | 10.0 | 0.092 | 0 S | 0 | 12.0 | 0.038 | 2 | 0.01 | 5 |
| 6 | 7.2 | 0.280 | 0 S | 0 | 10.0 | 0.079 | 0 S | 0 | 13.0 | 0.034 | 3 S | 0.01 | 6 |
| 7 | 7.5 | 0.233 | 0 S | 0 | 9.5 | 0.816 | 5 S | 0.58 | 13.0 | 0.035 | 2 S | 0.01 | 7 |
| 8 | 7.0 | 0.191 | 1 S | 0.02 | 8.0 | 1.21 | 10 | 1.05 | 13.2 | 0.032 | 1 S | 0 | 8 |
| 9 | 7.5 | 0.171 | 1 S | 0.01 | 8.0 | 0.486 | 7 S | 0.30 | 13.0 | 0.044 | 1 | 0 | 9 |
| 10 | 7.2 | 0.174 | 1 | 0.02 | 8.5 | 0.278 | 5 S | 0.12 | 11.5 | 0.874 | 1 S | 0.08 | 10 |
| 11 | 7.0 | 0.172 | 0 S | 0 | 8.2 | 0.186 | 4 S | 0.07 | 11.0 | 0.888 | 1 S | 0.05 | 11 |
| 12 | 6.5 | 0.148 | 1 S | 0.01 | 10.5 | 0.148 | 4 S | 0.05 | 11.2 | 0.388 | 1 | 0.03 | 12 |
| 13 | 7.0 | 0.130 | 1 S | 0.01 | 10.5 | 0.122 | 4 S | 0.04 | 11.5 | 0.221 | 0 S | 0 | 13 |
| 14 | 7.5 | 0.117 | 1 S | 0.01 | 10.2 | 0.205 | 3 S | 0.07 | 12.3 | 0.187 | 1 S | 0.01 | 14 |
| 15 | 8.0 | 0.107 | 1 S | 0.01 | 8.5 | 0.418 | 7 | 0.04 | 12.0 | 0.193 | 0 S | 0 | 15 |
| 16 | 8.5 | 0.098 | 1 S | 0.01 | 10.0 | 0.253 | 1 S | 0.02 | 13.0 | 0.187 | 1 S | 0.02 | 16 |
| 17 | 9.0 | 0.087 | 1 | 0.01 | 9.5 | 0.168 | 1 S | 0.02 | 11.5 | 0.311 | 2 S | 0.05 | 17 |
| 18 | 10.0 | 0.083 | 0 S | 0 | 8.5 | 0.185 | 1 S | 0.03 | 11.0 | 0.408 | 1 S | 0.04 | 18 |
| 19 | 10.0 | 0.077 | 1 S | 0.01 | 10.3 | 0.185 | 1 S | 0.01 | 11.0 | 0.278 | 1 | 0.03 | 19 |
| 20 | 10.0 | 0.088 | 1 S | 0.01 | 11.0 | 0.124 | 0 S | 0 | 11.0 | 0.236 | 1 S | 0.02 | 20 |
| 21 | 9.5 | 0.072 | 1 S | 0.01 | 11.0 | 0.110 | 0 S | 0 | 11.5 | 0.178 | 1 S | 0.02 | 21 |
| 22 | 10.0 | 0.074 | 1 S | 0.01 | 11.0 | 0.093 | 0 | 0 | 11.0 | 0.144 | 1 S | 0.01 | 22 |
| 23 | 10.0 | 0.088 | 1 S | 0.01 | 11.5 | 0.083 | 0 S | 0 | 12.0 | 0.138 | 1 S | 0.01 | 23 |
| 24 | 10.1 | 0.104 | 1 | 0.01 | 12.0 | 0.079 | 1 S | 0.01 | 12.0 | 0.128 | 1 S | 0.01 | 24 |
| 25 | 8.6 | 0.183 | 2 S | 0.02 | 12.0 | 0.085 | 1 S | 0.01 | 12.2 | 0.157 | 1 S | 0.01 | 25 |
| 26 | 8.0 | 0.318 | 2 S | 0.06 | 12.1 | 0.081 | 1 S | 0.01 | 12.0 | 0.268 | 3 | 0.04 | 26 |
| 27 | 8.0 | 0.268 | 1 S | 0.02 | 12.0 | 0.068 | 0 S | 0 | 12.0 | 0.190 | 2 S | 0.03 | 27 |
| 28 | 8.0 | 0.198 | 1 S | 0.01 | 12.5 | 0.068 | 0 S | 0 | 12.0 | 0.165 | 2 S | 0.03 | 28 |
| 29 | 9.2 | 0.118 | 1 S | 0.01 | 14.2 | 0.068 | 1 | 0 | 12.5 | 0.128 | 2 S | 0.02 | 29 |
| 30 | 11.0 | 0.097 | 1 S | 0.01 | 14.0 | 0.068 | 1 S | 0 | 12.2 | 0.114 | 2 S | 0.02 | 30 |
| 31 | | | | | 13.2 | 0.068 | 1 S | 0 | | | | | 31 |
| TOTAL | | 9.868 | | 0.81 | | 8.087 | | 3.43 | | 6.021 | | 0.88 | TOTAL |
| MEAN | | 0.329 | | 0.02 | | 0.188 | | 0.08 | | 0.201 | | 0.02 | MEAN |

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12.4 | 0.111 | 2 S | 0.02 | 13.8 | 0.071 | 1 S | | 14.1 | 0.062 | 1 S | 0 | 1 |
| 2 | 12.4 | 0.103 | 2 S | 0.03 | 14.0 | 0.067 | 2 S | 0.01 | 13.8 | 0.063 | 1 S | 0 | 2 |
| 3 | 12.5 | 0.110 | 2 | 0.02 | 13.8 | 0.067 | 2 S | 0.01 | 13.6 | 0.048 | 2 | 0.01 | 3 |
| 4 | 12.3 | 0.101 | 2 S | 0.02 | 13.5 | 0.063 | 1 S | 0.01 | 13.9 | 0.047 | 2 S | 0.01 | 4 |
| 5 | 12.1 | 0.091 | 2 S | 0.02 | 14.0 | 0.060 | 1 S | 0.01 | 13.3 | 0.042 | 1 S | 0 | 5 |
| 6 | 12.0 | 0.080 | 2 S | 0.01 | 13.9 | 0.053 | 1 | | | | | | |
| 7 | 12.0 | 0.077 | 2 S | 0.01 | 13.9 | 0.048 | 2 S | | 13.4 | 0.070 | 1 S | 0.01 | 6 |
| 8 | 12.0 | 0.073 | 2 S | 0.01 | 14.5 | 0.040 | 1 S | 0.01 | 13.0 | 0.108 | 2 S | 0.02 | 7 |
| 9 | 13.0 | 0.063 | 2 S | 0.01 | 13.9 | 0.036 | 1 S | 0 | 12.5 | 0.118 | 2 S | 0.02 | 8 |
| 10 | 13.2 | 0.055 | 2 | 0.01 | 14.5 | 0.037 | 1 S | 0 | 12.0 | 0.098 | 2 S | 0.02 | 9 |
| 11 | 13.0 | 8.38 | 21 S | 15.2 | 14.5 | 0.035 | 1 S | 0 | 12.5 | 0.182 | 3 | 0.05 | 10 |
| 12 | 12.0 | 3.18 | 5 S | 1.37 | 14.5 | 0.029 | 2 S | 0 | 13.0 | 0.277 | 2 S | 0.05 | 11 |
| 13 | 12.0 | 1.96 | 3 S | 0.51 | 13.0 | 0.027 | 3 | 0.01 | 12.0 | 0.188 | 1 S | 0.02 | 12 |
| 14 | 11.0 | 1.71 | 1 S | 0.15 | 14.5 | 0.028 | 2 S | 0.01 | 12.5 | 0.128 | 2 S | 0.02 | 13 |
| 15 | 11.2 | 0.844 | 0 S | 0 | 14.5 | 0.024 | 1 S | 0 | 12.1 | 0.097 | 2 S | 0.02 | 14 |
| 16 | 11.8 | 0.381 | 0 S | 0 | 14.5 | 0.022 | 2 S | 0 | 12.9 | 0.078 | 2 S | 0.01 | 15 |
| 17 | 12.0 | 0.288 | 0 | 0 | 13.3 | 0.022 | 2 S | 0 | 12.8 | 0.088 | 1 S | 0.01 | 16 |
| 18 | 12.5 | 0.208 | 0 S | 0 | 13.7 | 0.020 | 3 S | 0.01 | 11.8 | 0.088 | 2 | 0.01 | 17 |
| 19 | 13.0 | 0.171 | 0 S | 0 | 13.7 | 0.020 | 2 S | 0 | 10.7 | 0.087 | 2 S | 0.02 | 18 |
| 20 | 13.0 | 0.148 | 0 S | 0 | 12.5 | 0.021 | 2 | 0 | 10.7 | 0.072 | 1 S | 0.01 | 19 |
| 21 | 13.0 | 0.141 | 0 S | 0 | 13.3 | 0.017 | 3 S | 0 | 11.5 | 0.057 | 1 S | 0.01 | 20 |
| 22 | 13.0 | 0.132 | 0 S | 0 | 13.4 | 0.017 | 2 S | 0 | 12.0 | 0.046 | 1 S | 0 | 21 |
| 23 | 13.5 | 0.108 | 0 | 0 | | 0.016 | 1 S | 0 | 12.0 | 0.042 | 1 S | 0 | 22 |
| 24 | 13.5 | 0.100 | 1 S | 0 | | 0.018 | 2 S | 0 | 12.0 | 0.038 | 1 | 0 | 23 |
| 25 | 14.0 | 0.088 | 1 S | 0.01 | 13.5 | 0.018 | 2 S | 0 | 11.5 | 0.031 | 2 S | 0 | 24 |
| 26 | 14.0 | 0.082 | 1 S | 0.01 | 14.0 | 0.016 | 2 S | 0 | | | | 0.01 | 25 |
| 27 | 13.5 | 0.102 | 1 S | 0.01 | 13.5 | 0.018 | 2 S | 0 | 13.0 | 0.031 | 1 S | 0 | 26 |
| 28 | 13.0 | 0.117 | 1 S | 0.01 | 13.0 | 0.015 | 2 | 0 | 10.5 | 0.058 | 1 S | 0.01 | 27 |
| 29 | 12.8 | 0.102 | 1 S | 0.01 | 14.0 | 0.022 | 2 S | 0 | 9.8 | 0.081 | 1 S | 0 | 28 |
| 30 | 13.0 | 0.088 | 1 | 0.01 | 13.8 | 0.074 | 1 S | 0.01 | 8.8 | 0.037 | 1 S | 0 | 29 |
| 31 | 14.0 | 0.079 | 1 S | 0.01 | 13.7 | 0.070 | 1 S | 0.01 | 9.5 | 0.027 | 2 S | 0 | 30 |
| | | | | | 13.5 | 0.063 | 1 S | 0 | | | | | 31 |
| TOTAL | | 19.075 | | 17.47 | | 1.119 | | 0.11 | | 2.388 | | 0.35 | TOTAL |
| MEAN | | 0.615 | | 0.56 | | 0.038 | | 0 | | 0.079 | | 0.01 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.5 | 0.026 | 1 | 0 | 8.1 | 0.721 | 4 S | 0.25 | 4.5 | 0.270 | 3 S | 0.07 | 1 |
| 2 | 9.3 | 0.022 | 0 S | 0 | 10.0 | 3.94 | 1 S | 0.34 | 5.0 | 0.323 | 2 S | 0.04 | 2 |
| 3 | 10.4 | 0.022 | 0 S | 0 | 9.5 | 4.83 | 1 S | 0.38 | 5.0 | 0.182 | 2 | 0.03 | 3 |
| 4 | 10.2 | 0.028 | 0 S | 0 | 8.5 | 3.41 | 1 S | 0.26 | 5.2 | 0.188 | 2 S | 0.03 | 4 |
| 5 | 9.5 | 0.026 | 0 | 0 | 8.0 | 1.47 | 1 S | 0.13 | 4.5 | 0.178 | 2 S | 0.03 | 5 |
| 6 | 8.8 | 0.022 | 0 | 0 | 8.3 | 2.01 | 1 S | 0.17 | 4.5 | 0.147 | 1 S | 0.01 | 6 |
| 7 | 9.0 | 0.020 | 0 S | 0 | 8.5 | 2.05 | 2 S | 0.35 | 4.0 | 0.143 | 1 S | 0.01 | 7 |
| 8 | 9.5 | 0.018 | 1 | 0 | 8.6 | 0.754 | 1 S | 0.07 | 5.2 | 4.28 | 6 S | 1.66 | 8 |
| 9 | 9.0 | 0.018 | 1 S | 0 | 8.2 | 1.40 | 2 S | 0.24 | 5.8 | 1.41 | 4 S | 0.48 | 9 |
| 10 | 8.8 | 0.017 | 1 S | 0 | 8.1 | 1.73 | 4 S | 0.80 | 5.0 | 0.577 | 2 | 0.10 | 10 |
| 11 | 8.5 | 0.015 | 1 S | 0 | 8.1 | 5.45 | 8 S | 4.24 | 5.8 | 0.721 | 5 S | 0.31 | 11 |
| 12 | 8.4 | 0.014 | 1 S | 0 | 8.6 | 5.08 | 3 S | 0.68 | 5.7 | 3.24 | 3 S | 0.81 | 12 |
| 13 | 9.3 | 0.013 | 0 S | 0 | 8.3 | 2.87 | 1 S | 0.35 | 5.1 | 2.86 | 1 S | 0.35 | 13 |
| 14 | 9.1 | 0.013 | 0 S | 0 | 9.2 | 4.00 | 4 S | 1.38 | 5.2 | 0.892 | 2 S | 0.17 | 14 |
| 15 | 8.3 | 0.015 | 0 | 0 | 9.4 | 13.7 | 11 S | 13.0 | 5.0 | 0.544 | 2 S | 0.09 | 15 |
| 16 | 8.5 | 0.015 | 0 S | 0 | 8.8 | 7.07 | 4 S | 2.44 | 5.0 | 0.384 | 2 S | 0.07 | 16 |
| 17 | 9.3 | 0.075 | 1 S | 0 | 9.0 | 5.38 | 3 S | 1.38 | 4.5 | 0.287 | 2 | 0.10 | 17 |
| 18 | 8.8 | 0.085 | 1 S | 0.01 | 8.0 | 2.70 | 1 S | 0.23 | 4.0 | 0.241 | 2 S | 0.10 | 18 |
| 19 | 8.5 | 0.080 | 1 S | 0.01 | 8.2 | 0.890 | 1 | 0.09 | 4.5 | 0.210 | 2 S | 0.08 | 19 |
| 20 | 8.5 | 0.383 | 2 S | 0.05 | 7.8 | 0.888 | 2 S | 0.17 | 2.3 | 0.182 | 4 S | 0.08 | 20 |
| 21 | 10.2 | 2.15 | 5 S | 0.83 | 7.2 | 0.868 | 2 S | 0.11 | 1.9 | 0.137 | 2 S | 0.02 | 21 |
| 22 | 10.0 | 2.82 | 3 S | 0.86 | 8.0 | 0.730 | 2 S | 0.12 | 1.0 | 0.112 | 1 | 0.01 | 22 |
| 23 | 9.0 | 0.845 | 2 S | 0.17 | 7.3 | 0.818 | 1 S | 0.06 | | 0.088 | 1 | 0.01 | 23 |
| 24 | 9.0 | 0.377 | 1 S | 0.03 | 8.5 | 3.83 | 2 S | 0.83 | 0.9 | 0.081 | 1 | 0.01 | 24 |
| 25 | 9.2 | 0.834 | 2 S | 0.11 | 8.4 | 1.83 | 1 S | 0.18 | 2.0 | 0.092 | 1 | 0.01 | 25 |
| 26 | 9.0 | 1.80 | 4 S | 0.83 | 8.7 | 3.14 | 3 S | 0.81 | 3.0 | 0.183 | 2 | 0.03 | 26 |
| 27 | 9.5 | 2.05 | 3 S | 0.84 | 7.0 | 1.83 | 2 S | 0.31 | 3.0 | 0.160 | 1 | 0.01 | 27 |
| 28 | 8.8 | 0.870 | 1 S | 0.09 | 8.5 | 0.888 | 2 S | 0.12 | 2.8 | 0.122 | 1 | 0.01 | 28 |
| 29 | 8.3 | 0.358 | 1 | 0.03 | 8.6 | 0.482 | 3 S | 0.12 | 3.0 | 0.121 | 1 | 0.01 | 29 |
| 30 | 8.2 | 1.39 | 4 S | 0.48 | 8.0 | 0.338 | 3 S | 0.08 | 4.0 | 1.08 | 8 S | 0.75 | 30 |
| 31 | 8.7 | 0.720 | 2 S | 0.13 | | | | | 3.8 | 2.84 | 5 S | 1.10 | 31 |
| TOTAL | | 14.217 | | 3.85 | | 66.085 | | 28.43 | | 21.071 | | 5.43 | TOTAL |
| MEAN | | 0.459 | | 0.12 | | 2.80 | | 0.95 | | 0.680 | | 0.21 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 8 | |
| MAXIMUM DAILY | 45 S | 00 FEB 11 |
| MINIMUM DAILY | 0 S | 00 JAN 16 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 0.55 | |
| MAXIMUM DAILY | 84.7 | 00 FEB 11 |
| MINIMUM DAILY | 0 | 00 JAN 16 |

TOTAL SUSPENDED SEDIMENT LOAD 239.00 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 54 00 N
LONG 124 59 02 W
DRAINAGE AREA 10.7 $km^2$
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

CARNATION CREEK AT THE MOUTH - STATION NO. 08MB048

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | NUMBER OF SAMPLING POINTS | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | METHOD OF ANALYSIS | TYPE OF SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | 4.000 | 8.000 | 16.000 | 32.000 | 64.000 | | |
| JAN 09 | 20:00 | 8.50H | 5 | | | | 7 | 25 | 42 | 58 | 83 | 81 | 100 | | | | 5 | ARNHEM |
| JUL 11 | 22:15 | 8.35H | 5 | | | | 2 | 8 | 20 | 36 | 57 | 74 | 100 | | | | 5 | ARNHEM |

H - DAILY MEAN DISCHARGE

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.058 B | | | | 0.022 B | | | | 0.011 B | | | 1 |
| 2 | | 0.058 B | | | | 0.016 B | | | | 0.012 B | | | 2 |
| 3 | | 0.061 B | | | | 0.017 B | | | | 0.011 B | | | 3 |
| 4 | | 0.051 B | | | | 0.018 B | | | | 0.012 B | | | 4 |
| 5 | | 0.048 B | | | | 0.018 B | | | | 0.014 B | | | 5 |
| 6 | | 0.052 B | | | | | | | | | | | |
| 7 | | 0.050 B | | | | 0.017 B | | | | 0.012 B | | | 6 |
| 8 | | 0.058 B | | | | 0.018 B | | | | 0.013 B | | | 7 |
| 9 | | 0.043 B | | | | 0.017 B | | | | 0.012 B | | | 8 |
| 10 | | 0.029 B | | | | 0.016 B | | | | 0.012 B | | | 9 |
| | | | | | | 0.018 B | | | | 0.018 B | | | 10 |
| 11 | | 0.031 B | | | | | | | | | | | |
| 12 | | 0.034 B | | | | 0.020 B | | | | 0.022 B | | | 11 |
| 13 | | 0.037 B | | | | 0.020 B | | | | 0.021 B | | | 12 |
| 14 | | 0.036 B | | | | 0.022 B | | | | 0.019 B | | | 13 |
| 15 | | 0.033 B | | | | 0.024 B | | | | 0.018 B | | | 14 |
| | | | | | | 0.020 B | | | | 0.016 B | | | 15 |
| 16 | | 0.027 B | | | | | | | | | | | |
| 17 | | 0.024 B | | | | 0.011 B | | | | 0.014 B | | | 16 |
| 18 | | 0.025 B | | | | 0.010 B | | | | 0.016 B | | | 17 |
| 19 | | 0.028 B | | | | 0.015 B | | | | 0.016 B | | | 18 |
| 20 | | 0.029 B | | | | 0.014 B | | | | 0.013 B | | | 19 |
| | | | | | | 0.018 B | | | | 0.011 B | | | 20 |
| 21 | | 0.023 B | | | | | | | | | | | |
| 22 | | 0.015 B | | | | 0.022 B | | | | 0.008 B | | | 21 |
| 23 | | 0.008 B | | | | 0.021 B | | | | 0.006 B | | | 22 |
| 24 | | 0.007 B | | | | 0.022 B | | | | 0.008 B | | | 23 |
| 25 | | 0.009 B | | | | 0.024 B | | | | 0.011 B | | | 24 |
| | | | | | | 0.020 B | | | | 0.013 B | | | 25 |
| 26 | | 0.011 B | | | | | | | | | | | |
| 27 | | 0.015 B | | | | 0.013 B | | | | 0.015 B | | | 26 |
| 28 | | 0.019 B | | | | 0.011 B | | | | 0.016 B | | | 27 |
| 29 | | 0.018 B | | | | 0.011 B | | | | 0.017 B | | | 28 |
| 30 | | 0.021 B | | | | | | | | 0.018 B | | | 29 |
| 31 | | 0.023 B | | | | | | | | 0.020 B | | | 30 |
| | | | | | | | | | | 0.021 B | | | 31 |
| TOTAL | | 0.988 | | | | 0.485 | | | | 0.451 | | | TOTAL |
| MEAN | | 0.032 | | | | 0.018 | | | | 0.015 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.023 B | | | | | | | | | | | |
| 2 | | 0.024 B | | | | 1.82 | 332 | 43.6 | | 0.593 | 32 | 1.63 | 1 |
| 3 | | 0.026 B | | | | 1.47 | 316 | 40.1 | 9.0 | 0.511 | 26 B | 1.24 | 2 |
| 4 | | 0.029 B | | | | 1.37 | 302 | 35.7 | | 0.496 | 27 | 1.18 | 3 |
| 5 | | 0.032 B | | | | 1.32 | 287 | 33.7 | 9.0 | 0.478 | 28 | 1.08 | 4 |
| | | | | | 5.0 | 1.38 | 272 B | 33.4 | | 0.486 | 28 | 0.86 | 5 |
| 6 | | 0.036 B | | | | | | | | | | | |
| 7 | | 0.040 B | | | | 1.33 | 267 | 29.3 | | | | | |
| 8 | | 0.056 B | | | | 1.26 | 242 | 26.8 | | 0.436 | 23 | 0.85 | 6 |
| 9 | | 0.058 B | | | | 2.01 | 226 | 39.2 | 14.0 | 0.402 | 21 B | 0.73 | 7 |
| 10 | | 0.068 B | | | | 2.58 | 212 | 64.6 | | 0.402 | 21 | 0.73 | 8 |
| | | | | | | 3.01 | 210 | 64.6 | 14.0 | 0.418 | 24 B | 0.87 | 9 |
| 11 | | 0.160 B | | | | | | | | 0.384 | 21 | 0.71 | 10 |
| 12 | | 0.287 | | | 8.0 | 2.95 | 226 B | 57.3 | | | | | |
| 13 | | 0.318 | | | 7.0 | 2.80 | 200 B | 55.1 | | 0.434 | 19 | 0.71 | 11 |
| 14 | | 0.348 | | | | 1.83 | 203 | 33.9 | | 0.474 | 21 | 0.86 | 12 |
| 15 | | 0.488 | | | | 2.22 | 195 | 39.7 | | 0.428 | 17 | 0.83 | 13 |
| | | | | | | 2.22 | 137 | 26.3 | 15.0 | 0.398 | 17 B | 0.86 | 14 |
| 16 | | 0.543 | | | | | | | | 0.378 | 16 | 0.86 | 15 |
| 17 | | 0.831 | | | | 2.14 | 129 | 23.9 | | | | | |
| 16 | | 0.900 | | | | 2.10 | 127 | 23.0 | 13.0 | 0.360 | 16 B | 0.50 | 16 |
| 19 | | 1.08 | | | 6.0 | 1.80 | 128 B | 19.8 | | 0.358 | 18 | 0.48 | 17 |
| 20 | | 1.41 | | | | 1.68 | 124 | 18.9 | | 0.358 | 17 | 0.53 | 18 |
| | | | | | 6.0 | 1.78 | 130 B | 18.6 | | 3.72 A | 82 | 31.0 | 19 |
| 21 | | 1.67 | 271 | 39.4 | | | | | | 9.82 B | 886 | 576 | 20 |
| 22 | | 1.66 | 270 | 33.6 | | 1.38 | 116 | 13.8 | 10.0 | 5.80 B | 743 B | 372 | 21 |
| 23 | | 1.66 | 272 | 34.3 | | 1.27 | 111 | 12.2 | 11.0 | 4.01 A | 310 B | 197 | 22 |
| 24 | | 1.67 | 271 | 34.4 | | 1.18 | 103 | 10.3 | 10.0 | 3.13 | 180 B | 43.3 | 23 |
| 25 | | 1.29 | 273 | 30.4 | | 1.04 | 89 | 8.00 | | 3.11 | 183 | 72.0 | 24 |
| | | | | | 10.0 | 0.988 | 71 B | 6.06 | | 13.0 | 206 | 288 | 25 |
| 26 | | 1.30 | 280 | 28.0 | | | | | | | | | |
| 27 | | 1.07 | 295 | 27.2 | | 0.917 | 59 | 4.67 | | 5.58 | 154 | 87.6 | 26 |
| 28 | | 1.05 | 326 | 29.8 | 11.0 | 0.834 | 50 B | 3.80 | | 4.20 | 116 | 41.7 | 27 |
| 29 | | 1.03 | 370 | 31.7 | | 0.768 | 44 | 3.00 | 10.0 | 3.30 | 101 B | 28.8 | 28 |
| 30 | | 1.74 | 361 | 52.8 | | 0.771 | 41 | 2.73 | | 2.69 | 97 | 21.7 | 29 |
| 31 | | | | | | 0.754 | 39 | 2.54 | | 2.31 | 93 | 18.8 | 30 |
| | | | | | 11.0 | 0.888 | 38 B | 2.13 | | | | | 31 |
| TOTAL | | 30.892 | | | | 50.126 | | 775.23 | | 70.083 | | 1 706.05 | TOTAL |
| MEAN | | 0.996 | | | | 1.63 | | 25.0 | | 2.34 | | 55.0 | MEAN |

BRITISH COLUMBIA

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.88 | 66 | 20.4 | | 0.631 | 11 | 0.59 | | 0.148 | 5 | 0.08 | 1 |
| 2 | | 3.48 | 102 | 30.5 | | 0.506 | 11 | 0.48 | | 0.137 | 6 | 0.07 | 2 |
| 3 | | 4.20 | 100 | 36.3 | | 0.474 | 11 | 0.45 | | 0.128 | 6 | 0.07 | 3 |
| 4 | | 3.86 | 108 | 36.2 | | 0.422 | 11 | 0.40 | | 0.121 | 5 | 0.05 | 4 |
| 5 | | 3.39 | 86 | 27.3 | | 0.378 | 10 | 0.33 | | 0.114 | 5 | 0.05 | 5 |
| 6 | | 2.85 | 89 | 22.7 | | 0.338 | 11 | 0.32 | | 0.118 | 5 | 0.05 | 6 |
| 7 | | 5.48 | 180 | 85.2 | | 0.312 | 10 | 0.27 | | 0.131 | 4 | 0.05 | 7 |
| 8 | | 4.74 | 121 | 49.6 | | 0.288 | 10 S | 0.26 | 7.0 | 0.132 | 4 S | 0.05 | 8 |
| 9 | | 3.81 | 81 | 30.7 | | 0.260 | 9 | 0.22 | | 0.125 | 3 | 0.03 | 9 |
| 10 | | 3.38 | 82 | 23.7 | | 0.259 | 9 | 0.20 | | 0.120 | 3 | 0.03 | 10 |
| 11 | | 3.48 | 80 | 24.1 | | 0.244 | 10 | 0.21 | | 0.115 | 3 | 0.03 | 11 |
| 12 | | 3.56 | 79 | 24.3 | | 0.229 | 9 | 0.18 | | 0.113 | 3 | 0.03 | 12 |
| 13 | | 2.42 | 83 | 17.4 | | 0.230 | 9 | 0.17 | | 0.112 | 3 | 0.03 | 13 |
| 14 | | 18.9 | 2 570 | 4 420 | | 0.205 | 9 | 0.16 | | 0.108 | 3 | 0.03 | 14 |
| 15 | 8.0 | 21.4 | 2 240 S | 4 140 | | 0.196 | 9 | 0.15 | | 0.104 | 2 | 0.02 | 15 |
| 16 | | 10.2 | 559 | 493 | | 0.188 | 8 | 0.13 | | 0.120 | 2 | 0.02 | 16 |
| 17 | | 4.81 | 118 | 58.2 | | 0.184 | 8 | 0.14 | | 0.152 | 3 | 0.03 | 17 |
| 18 | | 3.77 | 84 | 17.6 | | 0.185 | 8 | 0.13 | | 0.138 | 3 | 0.02 | 18 |
| 19 | | 2.84 | 32 | 7.68 | | 0.174 | 8 | 0.12 | | 0.128 | 2 | 0.02 | 19 |
| 20 | | 2.88 | 18 | 3.57 | | 0.170 | 8 | 0.12 | | 0.124 | 3 | 0.02 | 20 |
| 21 | | 2.47 | 8 | 1.82 | | 0.156 | 8 | 0.11 | | 0.124 | 2 | 0.02 | 21 |
| 22 | | 1.89 | 8 | 1.38 | | 0.148 | 7 | 0.09 | | 0.127 | 2 | 0.02 | 22 |
| 23 | | 1.53 | 8 | 1.06 | | 0.141 | 7 | 0.09 | | 0.132 | 2 | 0.02 | 23 |
| 24 | | 1.27 | 5 | 0.28 | | 0.130 | 7 | 0.08 | | 0.118 | 2 | 0.02 | 24 |
| 25 | | 1.43 | 10 | 1.24 | | 0.127 | 7 | 0.08 | | 0.112 | 2 | 0.02 | 25 |
| 26 | | 2.34 | 15 | 3.03 | | 0.120 | 7 | 0.07 | | 0.124 | 2 | 0.02 | 26 |
| 27 | | 1.88 | 14 | 2.28 | | 0.113 | 7 | 0.07 | | 0.134 | 2 | 0.02 | 27 |
| 28 | | 1.37 | 12 | 1.42 | | 0.121 | 7 | 0.07 | | 0.131 | 2 | 0.02 | 28 |
| 29 | | 1.04 | 12 | 1.08 | | 0.228 | 10 | 0.20 | | 0.113 | 2 | 0.02 | 29 |
| 30 | | 0.787 | 13 | 0.80 | | 0.211 | 8 | 0.15 | | 0.112 | 2 | 0.02 | 30 |
| 31 | | 0.818 | 12 | 0.84 | | 0.181 | 8 | 0.08 | | | | | 31 |
| TOTAL | | 139.383 | | 9 574.35 | | 7.450 | | 5.03 | | 3.884 | | 0.58 | TOTAL |
| MEAN | | 4.17 | | 309 | | 0.240 | | 0.16 | | 0.133 | | 0.02 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.112 | 2 | 0.02 | | 0.137 E | | | | 0.015 E | | | 1 |
| 2 | | 0.112 | 2 | 0.02 | | 0.134 | | | | 0.013 E | | | 2 |
| 3 | | 0.116 | 2 | 0.02 | | 0.138 | | | | 0.014 E | | | 3 |
| 4 | | 0.116 | 2 | 0.02 | | 0.141 | | | | 0.017 E | | | 4 |
| 5 | | 0.117 | 2 | 0.02 | | 0.126 E | | | | 0.015 E | | | 5 |
| 6 | | 0.113 | 1 | 0.01 | | 0.115 E | | | | 0.015 E | | | 6 |
| 7 | | 0.110 | 1 | 0.01 | | 0.105 E | | | | 0.010 E | | | 7 |
| 8 | | 0.105 | 1 | 0.01 | | 0.100 E | | | | 0.008 E | | | 8 |
| 9 | | 0.103 | 1 | 0.01 | | 0.090 E | | | | 0.008 E | | | 9 |
| 10 | | 0.102 | 1 | 0.01 | | 0.084 E | | | | 0.008 E | | | 10 |
| 11 | | 0.103 | 1 | 0.01 | | 0.078 E | | | | 0.007 E | | | 11 |
| 12 | | 0.105 | 1 | 0.01 | | 0.070 E | | | | 0.008 E | | | 12 |
| 13 | | 0.144 | 4 | 0.05 | | 0.066 E | | | | 0.008 E | | | 13 |
| 14 | | 0.245 | 15 | 0.34 | | 0.062 E | | | | 0.007 E | | | 14 |
| 15 | | 0.303 | 14 | 0.35 | | 0.056 E | | | | 0.005 E | | | 15 |
| 16 | | 0.187 | 14 | 0.20 | | 0.050 E | | | | 0.004 E | | | 16 |
| 17 | | 0.181 | 14 | 0.19 | | 0.063 E | | | | 0.002 E | | | 17 |
| 18 | | 0.151 | 14 | 0.18 | | 0.064 E | | | | 0.001 E | | | 18 |
| 19 | 0.1 | 0.172 | 13 S | 0.19 | | 0.060 E | | | | 0.002 E | | | 19 |
| 20 | | 0.184 | 13 | 0.21 | | 0.053 E | | | | 0.004 E | | | 20 |
| 21 | | 0.188 | 13 | 0.21 | | 0.044 E | | | | 0.005 E | | | 21 |
| 22 | | 0.178 | 13 | 0.20 | | 0.038 E | | | | 0.005 E | | | 22 |
| 23 | | 0.173 | 13 | 0.19 | | 0.036 E | | | | 0.003 E | | | 23 |
| 24 | | 0.165 E | 12 | 0.17 | | 0.032 E | | | | 0.002 E | | | 24 |
| 25 | | 0.161 | 11 | 0.15 | | 0.032 E | | | | 0.003 E | | | 25 |
| 26 | | 0.171 | 11 | 0.16 | | 0.036 E | | | | 0.004 E | | | 26 |
| 27 | | 0.185 | 10 | 0.16 | | 0.034 E | | | | 0.003 E | | | 27 |
| 28 | | 0.188 | 9 | 0.15 | | 0.033 E | | | | 0.001 E | | | 28 |
| 29 | | 0.151 | 9 | 0.12 | | 0.031 E | | | | 0.001 E | | | 29 |
| 30 | | 0.151 | 9 | 0.12 | | 0.030 E | | | | 0.001 E | | | 30 |
| 31 | | 0.147 | 7 | 0.09 | | | | | | 0.001 E | | | 31 |
| TOTAL | | 4.886 | | 3.44 | | 2.087 | | | | 0.188 | | | TOTAL |
| MEAN | | 0.157 | | 0.11 | | 0.069 | | | | 0.006 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 32 07 N
LONG 121 35 40 W
DRAINAGE AREA 85.5 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.063 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 11 | 16:40 | 2.85N | 8.0 | 232 K | 44 | 54 | 67 | 81 | 90 | 95 | 99 | 100 | | | | BNW |
| MAY 12 | 17:20 | 2.90N | 9.0 | 267 K | 31 | 54 | 68 | 82 | 93 | 96 | 100 | | | | | BNW |
| JUN 21 | 13:01 | 8.50 | 10.0 | 726 K | 29 | 36 | 44 | 56 | 68 | 77 | 87 | 93 | 97 | 100 | | BNW |
| JUN 22 | 14:24 | 4.01 | 11.0 | 288 K | 42 | 52 | 64 | 76 | 85 | 94 | 98 | 98 | 100 | | | BNW |
| JUN 23 | 10:24 | 3.13N | 10.0 | 181 K | 42 | 51 | 64 | 83 | 90 | 95 | 99 | 100 | | | | BNW |
| JUL 15 | 09:30 | 21.4 N | 8.0 | 2 460 K | 18 | 23 | 31 | 42 | 55 | 66 | 79 | 88 | 93 | 98 | 100 | BNW |

N - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

BUCK CREEK NEAR WYNNDEL - STATION NO. 08NN016

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.362 | 0 | 0 | | 0.471 | 2 | 0.08 | | 0.737 | 5 | 0.32 | 1 |
| 2 | | 0.380 | 0 | 0 | | 0.483 | 2 | 0.08 | | 0.788 | 5 | 0.33 | 2 |
| 3 | | 0.403 | 0 | 0 | | 0.480 | 2 | 0.08 | | 0.848 | 6 | 0.44 | 3 |
| 4 | | 0.381 | 0 | 0 | | 0.431 | 1 | 0.04 | | 0.888 | 6 | 0.46 | 4 |
| 5 | | 0.431 | 1 | 0.04 | | 0.388 | 1 | 0.03 | | 0.870 | 8 | 0.48 | 5 |
| 6 | | 0.415 | 2 | 0.07 | | 0.380 E | 1 | 0.03 | | 0.847 | 6 | 0.44 | 6 |
| 7 | 3.0 | 0.436 | 3 E | 0.11 | | 0.400 E | 1 | 0.03 | | 0.838 | 8 | 0.43 | 7 |
| 8 | | 0.718 | 8 | 0.37 | | 0.431 | 1 | 0.04 | | 0.830 | 8 | 0.43 | 8 |
| 9 | | 0.588 | 4 | 0.20 | | 0.420 | 1 | 0.04 | 5.0 | 0.840 | 7 E | 0.57 | 9 |
| 10 | | 0.585 | 4 | 0.20 | 3.0 | 0.431 | 3 E | 0.07 | 4.0 | 1.87 | 13 E | 1.73 | 10 |
| 11 | | 0.555 | 4 | 0.18 | | 0.422 | 3 | 0.11 | | 1.83 | 9 | 1.27 | 11 |
| 12 | | 0.539 | 4 | 0.18 | | 0.569 | 4 | 0.18 | 5.0 | 1.44 | 8 E | 0.82 | 12 |
| 13 | | 0.535 | 4 | 0.18 | | 0.580 | 4 | 0.20 | | 1.38 | 4 | 0.47 | 13 |
| 14 | | 0.503 | 3 | 0.13 | | 0.559 | 4 | 0.19 | | 1.35 | 3 | 0.32 | 14 |
| 15 | | 0.483 | 3 | 0.08 | | 0.548 | 3 | 0.14 | 8.0 | 1.18 | 3 E | 0.29 | 15 |
| 16 | | 0.472 | 1 | 0.04 | | 0.555 | 4 | 0.19 | | 1.12 | 3 | 0.28 | 16 |
| 17 | | 0.476 | 1 | 0.04 | | 0.571 | 4 | 0.20 | | 1.08 | 4 | 0.37 | 17 |
| 18 | | 0.478 | 1 | 0.04 | | 0.580 | 4 | 0.20 | | 0.931 | 5 | 0.43 | 18 |
| 19 | | 0.477 | 1 | 0.04 | | 0.574 | 4 | 0.20 | 8.5 | 0.830 | 8 E | 0.60 | 19 |
| 20 | | 0.471 | 1 | 0.04 | | 0.575 | 4 | 0.20 | | 0.808 | 4 | 0.31 | 20 |
| 21 | | 0.465 | 1 | 0.04 | | 0.564 | 4 | 0.20 | | 0.888 | 3 | 0.23 | 21 |
| 22 | | 0.448 | 1 | 0.04 | | 0.564 | 4 | 0.20 | 8.0 | 0.872 | 2 E | 0.15 | 22 |
| 23 | | 0.442 | 1 | 0.04 | | 0.557 | 4 | 0.21 | | 0.840 | 1 | 0.08 | 23 |
| 24 | | 0.431 | 1 | 0.04 | | 0.547 | 4 | 0.22 | | 0.803 | 1 | 0.08 | 24 |
| 25 | | 0.464 | 1 | 0.04 | | 0.707 | 5 | 0.31 | 7.0 | 0.675 | 1 E | 0.05 | 25 |
| 26 | | 0.467 | 1 | 0.04 | | 0.711 | 5 | 0.31 | | 0.880 | 1 | 0.08 | 26 |
| 27 | | 0.575 | 3 | 0.15 | | 0.709 | 5 | 0.31 | | 0.878 | 1 | 0.08 | 27 |
| 28 | | 0.585 | 3 | 0.15 | | 0.717 | 5 | 0.31 | 5.0 | 0.854 | 1 E | 0.07 | 28 |
| 29 | | 0.539 | 3 | 0.14 | | | | | | 0.883 | 2 | 0.15 | 29 |
| 30 | | 0.501 | 2 | 0.09 | | | | | | 0.940 | 2 | 0.16 | 30 |
| 31 | | 0.485 | 2 | 0.08 | | | | | 6.5 | 0.942 | 1 E | 0.08 | 31 |
| TOTAL | | 15.023 | | 2.81 | | 15.075 | | 4.61 | | 30.880 | | 11.52 | TOTAL |
| MEAN | | 0.485 | | 0.09 | | 0.538 | | 0.16 | | 0.996 | | 0.37 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.865 | 1 | 0.08 | 5.0 | 2.20 | 6 E | 1.14 | 9.5 | 5.10 E | 78 E | 33.0 | 1 |
| 2 | | 0.864 | 1 | 0.08 | | 2.50 | 4 | 0.78 | | 5.03 E | 83 | 36.5 | 2 |
| 3 | 5.0 | 0.835 | 1 E | 0.08 | | 2.17 | 2 | 0.37 | 9.0 | 5.00 E | 39 E | 16.5 | 3 |
| 4 | | 0.832 A | 2 | 0.18 | 6.0 | 2.13 | 3 E | 0.37 | | 4.86 E | 27 | 11.6 | 4 |
| 5 | | 0.810 E | 2 | 0.18 | | 2.11 | 3 | 0.36 | 8.0 | 4.90 | 22 E | 9.31 | 5 |
| 6 | 7.0 | 0.802 A | 2 E | 0.28 | | 2.17 | 3 | 0.37 | | 4.82 | 20 | 7.58 | 6 |
| 7 | | 1.10 E | 3 | 0.28 | 6.5 | 2.22 | 5 E | 0.66 | 10.0 | 4.83 | 18 E | 7.44 | 7 |
| 8 | | 1.05 E | 3 | 0.28 | | 2.15 | 7 | 1.33 | | 4.45 | 20 | 7.69 | 8 |
| 9 | | 1.07 E | 3 | 0.18 | | 2.10 | 8 | 1.08 | 10.0 | 4.38 | 17 E | 6.60 | 9 |
| 10 | | 1.08 E | 3 | 0.18 | 8.0 | 2.08 | 6 E | 1.07 | | 4.46 | 18 | 7.39 | 10 |
| 11 | | 1.08 E | 3 | 0.17 | | 2.05 | 4 | 0.71 | 9.0 | 3.85 | 17 E | 5.80 | 11 |
| 12 | | 0.860 E | 3 | 0.17 | | 2.06 | 3 | 0.53 | | 3.43 | 13 | 3.85 | 12 |
| 13 | | 0.810 E | 3 | 0.18 | 8.0 | 2.10 | 3 E | 0.54 | 10.0 | 3.06 | 11 E | 2.81 | 13 |
| 14 | 6.0 | 0.814 A | 3 E | 0.18 | 8.0 | 2.14 | 5 E | 0.83 | | 2.83 | 11 | 2.66 | 14 |
| 15 | | 0.858 | 1 | 0.08 | | 2.24 | 5 | 0.97 | 9.0 | 3.03 | 12 E | 3.14 | 15 |
| 16 | | 1.01 | 3 | 0.17 | | 2.26 | 5 | 0.98 | 7.5 | 2.73 | 9 E | 1.63 | 16 |
| 17 | 9.0 | 1.13 | 3 E | 0.29 | 7.5 | 2.28 | 5 E | 1.02 | | 2.84 | 5 | 1.23 | 17 |
| 18 | | 1.31 | 3 | 0.38 | | 2.34 | 5 | 1.01 | | 2.41 | 5 | 1.05 | 18 |
| 19 | | 1.02 | 4 | 0.53 | | 2.33 | 5 | 1.01 | 7.0 | 2.24 | 5 E | 1.19 | 19 |
| 20 | 8.0 | 1.70 | 6 E | 0.73 | 8.0 | 2.44 | 7 E | 1.46 | | 2.96 | 4 | 0.91 | 20 |
| 21 | | 1.78 | 5 | 0.78 | | 2.70 | 12 | 2.80 | | 1.98 | 3 | 0.81 | 21 |
| 22 | | 1.77 | 5 | 0.78 | 10.0 | 2.83 | 20 E | 5.05 | 11.0 | 1.83 | 3 E | 0.80 | 22 |
| 23 | 8.0 | 1.91 | 10 E | 1.65 | | 3.35 | 22 | 9.39 | | 2.38 | 6 | 1.22 | 23 |
| 24 | | 2.98 | 25 | 5.72 | 10.0 | 4.17 | 46 E | 16.8 | | 2.57 | 11 | 3.44 | 24 |
| 25 | 6.5 | 3.03 | 27 E | 7.07 | | 4.63 | 57 | 23.5 | 8.0 | 3.08 | 5 E | 0.88 | 25 |
| 26 | | 2.90 | 15 | 3.59 | 8.0 | 4.24 | 66 E | 24.0 | | 1.93 | 5 | 0.83 | 26 |
| 27 | | 2.41 | 8 | 1.67 | 7.0 | 5.06 | 70 E | 34.1 | | 1.89 | 5 | 0.82 | 27 |
| 28 | 6.5 | 2.26 | 7 E | 1.37 | 8.0 | 6.56 | 136 E | 80.0 | 13.0 | 1.86 | 4 E | 0.65 | 28 |
| 29 | | 2.16 | 5 | 1.12 | | 5.62 | 126 | 55.0 | | 1.89 | 5 | 0.83 | 29 |
| 30 | | 2.16 | 5 | 0.83 | 8.0 | 5.32 E | 126 E | 57.9 | | 1.86 | 5 | 0.97 | 30 |
| 31 | | | | | | 5.20 E | 97 | 43.8 | | | | | 31 |
| TOTAL | | 44.372 | | 30.26 | | 83.69 | | 354.83 | | 95.00 | | 103.31 | TOTAL |
| MEAN | | 1.48 | | 1.01 | | 2.88 | | 11.8 | | 3.20 | | 5.81 | MEAN |

BUCK CREEK NEAR WYNNDEL - STATION NO. 08NH018

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.85 | 8 S | 1.28 | 15.0 | 1.08 | 3 | 0.27 | | 0.697 | 2 | 0.12 | 1 |
| 2 | | 1.88 | 7 | 1.14 | | 1.06 | 3 | 0.27 | | 0.676 | 2 | 0.12 | 2 |
| 3 | | 1.85 | 4 | 0.84 | | 1.01 | 2 | 0.17 | | 0.677 | 3 | 0.18 | 3 |
| 4 | | 1.78 | 2 S | 0.31 | | 0.975 | 2 | 0.17 | | 0.686 | 3 | 0.17 | 4 |
| 5 | | 1.72 | 1 | 0.15 | | 0.942 | 3 | 0.25 | 11.0 | 0.675 | 4 S | 0.23 | 5 |
| 6 | | 1.73 | 1 | 0.15 | | 0.911 | 3 | 0.24 | | 0.657 | 4 | 0.22 | 6 |
| 7 | | 1.63 | 1 | 0.14 | | 0.887 | 3 | 0.23 | | 0.646 | 4 | 0.22 | 7 |
| 8 | | 1.65 | 2 | 0.29 | 15.5 | 0.872 | 3 S | 0.22 | | 0.630 | 4 | 0.22 | 8 |
| 9 | | 1.56 | 2 | 0.27 | | 0.857 | 3 | 0.22 | | 0.627 | 3 | 0.16 | 9 |
| 10 | | 1.46 | 2 | 0.25 | | 0.855 | 3 | 0.22 | | 0.647 | 3 | 0.17 | 10 |
| 11 | 11.0 | 1.38 | 3 | 0.36 | | 0.985 | 6 | 0.52 | | 0.643 | 4 | 0.24 | 11 |
| 12 | | 1.37 | 3 | 0.36 | | 1.04 | 5 | 0.46 | 11.0 | 0.625 | 3 S | 0.16 | 12 |
| 13 | | 1.65 | 6 | 0.85 | | 0.887 | 3 | 0.23 | | 0.603 | 2 | 0.10 | 13 |
| 14 | | 1.77 | 7 | 1.07 | | 0.839 | 2 | 0.14 | 9.0 | 0.606 | 1 S | 0.05 | 14 |
| 15 | | 1.67 | 5 | 0.72 | 11.0 | 0.811 | 2 S | 0.14 | | 0.595 | 1 | 0.05 | 15 |
| 16 | | 1.63 | 4 | 0.56 | | 0.783 | 2 | 0.14 | | 0.588 | 1 | 0.05 | 16 |
| 17 | | 1.53 | 3 | 0.39 | | 0.771 | 3 | 0.20 | | 0.601 | 3 | 0.16 | 17 |
| 18 | | 1.41 | 3 S | 0.37 | 11.0 | 0.784 | 3 S | 0.20 | | 0.595 | 3 | 0.15 | 18 |
| 19 | | 1.37 | 2 S | 0.24 | | 0.746 | 3 | 0.19 | 7.0 | 0.586 | 3 S | 0.15 | 19 |
| 20 | | 1.42 | 3 | 0.37 | | 0.733 | 2 | 0.13 | | 0.580 | 4 | 0.20 | 20 |
| 21 | | 1.35 | 3 | 0.33 | | 0.736 | 2 | 0.13 | | 0.563 | 3 | 0.15 | 21 |
| 22 | | 1.28 | 2 | 0.22 | 13.0 | 0.712 | 1 S | 0.06 | | 0.577 | 3 | 0.15 | 22 |
| 23 | | 1.23 | 1 | 0.11 | | 0.809 | 3 | 0.21 | | 0.562 | 3 | 0.15 | 23 |
| 24 | | 1.26 | 2 | 0.22 | | 0.993 | 7 | 0.60 | | 0.548 | 3 | 0.14 | 24 |
| 25 | | 1.46 | 4 S | 0.50 | | 0.807 | 4 | 0.28 | | 0.540 | 3 | 0.14 | 25 |
| 26 | | 1.36 | 3 | 0.35 | | 0.808 | 3 | 0.21 | 9.0 | 0.540 | 3 S | 0.14 | 26 |
| 27 | | 1.20 | 3 | 0.31 | | 0.787 | 3 | 0.20 | | 0.534 | 3 | 0.14 | 27 |
| 28 | | 1.17 | 3 | 0.30 | | 0.739 | 2 | 0.13 | | 0.529 | 3 | 0.14 | 28 |
| 29 | | 1.14 | 3 | 0.30 | 16.0 | 0.714 | 2 S | 0.12 | | 0.520 | 2 | 0.09 | 29 |
| 30 | | 1.08 | 3 | 0.28 | | 0.702 | 2 | 0.12 | | 0.510 | 2 | 0.09 | 30 |
| 31 | | 1.06 | 3 | 0.27 | | 0.675 | 2 | 0.12 | | | | | 31 |
| TOTAL | | 45.91 | | 13.02 | | 26.223 | | 6.78 | | 18.080 | | 4.45 | TOTAL |
| MEAN | | 1.48 | | 0.42 | | 0.846 | | 0.22 | | 0.603 | | 0.15 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.507 | 2 | 0.09 | | 0.578 | 4 | 0.18 | 0.1 | 0.505 A | 6 S | 0.26 | 1 |
| 2 | | 0.500 | 2 | 0.09 | | 0.590 | 5 | 0.24 | | 0.485 | 6 | 0.25 | 2 |
| 3 | 5.0 | 0.494 | 2 S | 0.09 | | 0.857 | 11 | 0.81 | | 0.517 | 6 | 0.27 | 3 |
| 4 | | 0.525 | 3 | 0.14 | | 1.06 | 12 | 1.09 | | 0.406 | 6 | 0.21 | 4 |
| 5 | | 0.505 | 3 | 0.13 | | 0.886 | 6 | 0.46 | 0.5 | 0.403 | 6 S | 0.21 | 5 |
| 6 | | 0.497 | 3 | 0.13 | | 0.701 | 8 | 0.46 | | 0.471 | 4 | 0.16 | 6 |
| 7 | | 0.485 | 3 | 0.13 | 4.5 | 0.667 | 4 S | 0.23 | | 0.471 | 4 | 0.16 | 7 |
| 8 | | 0.480 | 3 | 0.13 | | 0.628 | 4 | 0.22 | | 0.477 | 3 | 0.12 | 8 |
| 9 | | 0.481 | 3 | 0.12 | | 0.604 | 4 | 0.21 | | 0.460 | 3 | 0.12 | 9 |
| 10 | 5.0 | 0.483 | 3 S | 0.13 | 3.5 | 0.594 | 17 S | 0.87 | | 0.465 | 3 | 0.13 | 10 |
| 11 | | 0.479 | 3 | 0.12 | 4.0 | 0.658 | 7 S | 0.40 | | 0.483 | 2 | 0.08 | 11 |
| 12 | | 0.472 | 3 | 0.12 | | 0.629 | 3 | 0.16 | 2.0 | 0.477 | 2 S | 0.08 | 12 |
| 13 | | 0.466 | 3 | 0.12 | | 0.652 | 4 | 0.23 | | 0.466 | 2 | 0.08 | 13 |
| 14 | | 0.472 | 3 | 0.12 | 4.5 | 0.616 | 4 S | 0.21 | | 0.478 | 2 | 0.08 | 14 |
| 15 | | 0.479 | 3 | 0.12 | | 0.670 | 5 | 0.29 | | 0.473 | 2 | 0.08 | 15 |
| 16 | | 0.482 | 3 | 0.12 | | 0.673 | 4 | 0.23 | | 0.485 | 3 | 0.12 | 16 |
| 17 | 5.5 | 0.475 | 4 S | 0.16 | | 0.601 | 6 | 0.30 | | 0.411 | 3 | 0.11 | 17 |
| 18 | | 0.484 | 4 | 0.17 | | 0.653 | 3 | 0.17 | | 0.404 B | 3 | 0.10 | 18 |
| 19 | | 0.480 | 3 | 0.12 | | 0.638 | 3 | 0.17 | 0.1 | 0.396 B | 3 S | 0.10 | 19 |
| 20 | 5.5 | 0.476 | 3 S | 0.12 | | 0.626 | 3 | 0.16 | | 0.394 B | 3 | 0.10 | 20 |
| 21 | | 0.481 | 3 | 0.12 | 3.5 | 0.594 | 3 S | 0.15 | | 0.385 B | 3 | 0.10 | 21 |
| 22 | | 0.549 | 5 | 0.24 | | 0.561 | 3 | 0.15 | | 0.380 B | 4 | 0.13 | 22 |
| 23 | | 0.543 | 5 | 0.23 | | 0.560 | 2 | 0.10 | | 0.370 B | 4 | 0.13 | 23 |
| 24 | 5.0 | 0.475 | 4 S | 0.16 | | 0.546 | 2 | 0.09 | | 0.375 B | 4 | 0.13 | 24 |
| 25 | | 0.466 | 4 | 0.16 | | 0.553 | 2 | 0.10 | | 0.365 B | 4 | 0.13 | 25 |
| 26 | | 0.454 | 3 | 0.12 | | 0.542 | 2 | 0.09 | 0.1 | 0.395 B | 5 S | 0.17 | 26 |
| 27 | | 0.449 | 3 | 0.12 | | 0.543 | 2 | 0.09 | | 0.400 B | 4 | 0.14 | 27 |
| 28 | | 0.436 | 3 | 0.11 | 3.0 | 0.527 | 2 S | 0.09 | | 0.385 B | 4 | 0.14 | 28 |
| 29 | | 0.434 | 3 | 0.11 | | 0.505 A | 3 | 0.13 | | 0.395 B | 4 | 0.14 | 29 |
| 30 | | 0.466 | 4 | 0.16 | | 0.505 B | 4 | 0.17 | | 0.410 | 4 | 0.14 | 30 |
| 31 | 7.0 | 0.502 | 4 S | 0.17 | | | | | | 0.423 | 4 | 0.15 | 31 |
| TOTAL | | 15.044 | | 4.27 | | 18.888 | | 8.38 | | 13.649 | | 4.38 | TOTAL |
| MEAN | | 0.485 | | 0.14 | | 0.629 | | 0.28 | | 0.440 | | 0.14 | MEAN |

SUMMARY FOR THE MONTHS APR TO DEC

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 10 | |
| MAXIMUM DAILY | 120 | ON MAY 28 |
| MINIMUM DAILY | 0 | ON JAN 01 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 2.10 | |
| MAXIMUM DAILY | 60.0 | ON MAY 28 |
| MINIMUM DAILY | 0 | ON JAN 01 |

TOTAL SUSPENDED SEDIMENT LOAD 594.88 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 10 N
LONG 116 31 50 W
DRAINAGE AREA 57.0 km²
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FIVE MILE CREEK ABOVE CITY INTAKE - STATION NO. 08NJ186

SUSPENDED SEDIMENT FOR 1983

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 1.21 A | 1 S | 0.10 | 5.0 | 15.0 | 17 S | 22.0 | 1 |
| 2 | | | | | | 1.27 A | 1 S | 0.11 | 4.0 | 15.1 | 9 S | 11.7 | 2 |
| 3 | | | | | 3.0 | 1.38 A | 2 S | 0.24 | 4.5 | 14.8 | 12 S | 15.3 | 3 |
| 4 | | | | | 3.0 | 1.52 A | 4 S | 0.52 | 4.5 | 10.3 | 5 S | 4.45 | 4 |
| 5 | | | | | 3.5 | 1.57 A | 9 S | 1.22 | 5.0 | 8.58 | 5 S | 4.45 | 5 |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | 3.0 | 1.78 A | 4 S | 0.62 | 5.0 | 8.28 | 5 S | 4.25 | 6 |
| 8 | | | | | 2.5 | 2.32 A | 2 S | 0.40 | 5.0 | 9.55 | 9 S | 7.43 | 7 |
| 9 | | | | | 3.0 | 2.30 A | 2 S | 0.40 | 5.0 | 10.7 | 12 S | 11.1 | 8 |
| 10 | | | | | 3.0 | 1.80 A | 3 S | 0.49 | 5.0 | 10.5 | 9 S | 8.16 | 9 |
| | | | | | 3.5 | 1.69 A | 1 S | 0.15 | 4.0 | 15.5 | 16 S | 21.4 | 10 |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | 3.5 | 1.53 A | 1 S | 0.13 | 4.0 | 8.33 | 5 S | 3.80 | 11 |
| 13 | | | | | 3.5 | 1.48 A | 2 S | 0.26 | 7.0 | 8.09 | 3 S | 1.56 | 12 |
| 14 | | | | | 4.0 | 1.80 A | 5 S | 0.78 | 8.0 | 8.54 | 3 S | 0.86 | 13 |
| 15 | | | | | 3.5 | 1.58 A | 5 S | 0.68 | 8.5 | 8.58 | 3 S | 1.03 | 14 |
| | | | | | 3.5 | 1.75 A | 3 S | 0.45 | 8.0 | 7.81 | 3 S | 2.02 | 15 |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | 4.0 | 2.02 A | 3 S | 0.52 | 8.0 | 8.18 | 4 S | 2.14 | 16 |
| 18 | | | | | 3.5 | 2.18 A | 4 S | 0.75 | 8.0 | 8.67 | 4 S | 3.04 | 17 |
| 19 | | | | | 4.0 | 2.64 | 4 S | 0.91 | 8.0 | 8.58 | 4 S | 3.10 | 18 |
| 20 | | | | | 4.0 | 2.55 | 3 S | 0.86 | 8.0 | 4.78 | 3 S | 1.23 | 19 |
| | | | | | 4.0 | 2.91 | 2 S | 0.50 | 8.0 | 4.46 | 7 S | 2.86 | 20 |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | 4.0 | 3.86 | 2 S | 0.67 | 8.0 | 4.17 | 7 S | 2.52 | 21 |
| 23 | | | | | 4.0 | 4.32 | 5 S | 1.87 | 7.0 | 3.84 | 6 S | 2.04 | 22 |
| 24 | | | | | 4.5 | 5.45 | 10 S | 4.71 | 8.5 | 4.87 | 4 S | 1.81 | 23 |
| 25 | | | | | 4.0 | 7.52 | 35 S | 22.7 | 8.0 | 4.90 | 7 S | 2.98 | 24 |
| | | | | | 4.0 | 8.48 | 43 S | 35.2 | 8.0 | 4.31 | 7 S | 2.61 | 25 |
| 26 | | | | | | | | | | | | | |
| 27 | | | | | 4.0 | 10.5 | 28 S | 25.4 | 7.0 | 4.11 | 6 S | 2.84 | 26 |
| 28 | | | | | 4.5 | 11.3 | 19 S | 18.6 | 7.5 | 4.30 | 8 S | 2.97 | 27 |
| 29 | | | | | 4.0 | 13.6 | 37 S | 44.1 | 8.0 | 4.38 | 13 S | 4.93 | 28 |
| 30 | | | | | 4.0 | 15.9 | 43 S | 59.1 | 7.0 | 4.24 | 5 S | 1.83 | 29 |
| 31 | | | | | 4.5 | 15.8 | 25 S | 36.3 | 8.0 | 4.34 | 4 S | 1.50 | 30 |
| | | | | | 5.0 | 15.1 | 20 S | 26.1 | | | | | 31 |
| TOTAL | | | | | | 151.10 | | 284.65 | | 232.62 | | 157.45 | TOTAL |
| MEAN | | | | | | 4.87 | | 9.18 | | 7.42 | | 5.25 | MEAN |

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.0 | 4.00 | 5 S | 1.73 | | 1.34 | 5 | 0.58 | 10.0 | 0.649 | 1 S | 0.06 | 1 |
| 2 | | 4.42 | 4 | 1.53 | | 1.18 | 5 | 0.51 | | 0.620 | 2 | 0.14 | 2 |
| 3 | | 3.74 | 3 | 0.97 | 10.5 | 1.01 | 3 S | 0.26 | | 0.780 | 2 | 0.13 | 3 |
| 4 | 5.0 | 3.44 | 2 S | 0.59 | | 0.916 | 2 | 0.16 | 6.0 | 0.709 | 2 S | 0.12 | 4 |
| 5 | | 3.84 | 4 | 1.22 | | 0.857 | 2 | 0.15 | | 0.707 | 2 | 0.12 | 5 |
| 6 | | 4.06 | 7 | 2.47 | 11.0 | 0.807 | 2 S | 0.14 | | | | | |
| 7 | | 3.86 | 7 | 2.21 | | 0.776 | 2 | 0.12 | 7.5 | 0.885 | 2 | 0.12 | 6 |
| 8 | 7.5 | 3.31 | 7 S | 2.00 | 13.0 | 0.752 A | 2 S | 0.13 | | 0.885 | 2 S | 0.12 | 7 |
| 9 | | 2.98 | 8 | 2.05 | | 0.752 | 2 | 0.13 | | 0.828 | 3 | 0.17 | 8 |
| 10 | | 2.77 | 7 | 1.68 | | 0.648 | 2 | 0.11 | | 0.834 | 2 | 0.11 | 9 |
| | | | | | | | | 0.15 | | 0.946 | 2 | 0.11 | 10 |
| 11 | 5.0 | 2.61 | 5 S | 1.35 | 12.0 | 1.02 | 3 S | 0.26 | 5.5 | 0.791 | 1 S | 0.07 | 11 |
| 12 | | 3.17 | 6 | 1.84 | | 1.30 | 3 S | 0.34 | | 0.760 | 2 | 0.13 | 12 |
| 13 | | 8.24 | 18 | 8.63 | 10.5 | 1.05 | 2 S | 0.18 | | 0.739 | 2 | 0.13 | 13 |
| 14 | | 4.81 | 8 | 2.65 | | 0.986 | 2 | 0.17 | | 0.731 | 2 S | 0.13 | 14 |
| 15 | | 3.96 | 6 | 2.06 | | 0.853 | 2 | 0.15 | | 0.710 | 2 | 0.16 | 15 |
| 16 | 7.5 | 3.62 | 5 S | 1.68 | | 0.910 | 2 | 0.16 | | 0.711 | 2 | 0.12 | 16 |
| 17 | | 3.21 | 7 | 1.94 | | 0.655 | 2 | 0.15 | | 0.868 | 2 | 0.12 | 17 |
| 18 | | 2.67 | 9 | 2.23 | | 0.767 | 2 | 0.13 | 4.0 | 0.864 | 2 S | 0.11 | 18 |
| 19 | 9.5 | 2.61 | 11 S | 2.67 | | 0.718 | 2 | 0.12 | | 0.831 | 2 | 0.11 | 19 |
| 20 | | 2.53 | 11 | 2.69 | | 0.699 | 2 | 0.12 | | 0.826 | 2 | 0.11 | 20 |
| 21 | | 2.58 | 9 | 2.01 | 8.5 | 0.881 | 2 S | 0.13 | 4.0 | 0.813 | 2 S | 0.11 | 21 |
| 22 | | 2.27 | 7 | 1.37 | | 0.633 | 1 | 0.06 | | 0.835 E | 3 | 0.16 | 22 |
| 23 | 8.5 | 2.10 | 5 S | 0.91 | | 0.861 | 2 | 0.10 | | 0.810 E | 4 | 0.21 | 23 |
| 24 | 10.0 | 1.80 | 4 S | 0.62 | 10.0 | 1.10 | 3 S | 0.28 | | 0.800 E | 5 | 0.25 | 24 |
| 25 | | 2.01 | 7 | 1.22 | | 1.01 | 1 | 0.08 | 5.5 | 0.582 A | 5 S | 0.25 | 25 |
| 26 | 10.0 | 2.22 | 6 S | 1.15 | | 1.17 | 2 | 0.20 | | 0.570 E | 4 | 0.20 | 26 |
| 27 | | 1.87 | 6 | 0.87 | | 1.03 | 1 | 0.08 | | 0.845 E | 4 | 0.15 | 27 |
| 28 | | 1.78 | 7 | 1.08 | | 0.885 | 1 | 0.06 | | 0.815 A | 3 | 0.13 | 28 |
| 29 | | 1.88 | 6 | 1.10 | | 0.810 | 1 | 0.07 | 4.0 | 0.805 E | 3 S | 0.13 | 29 |
| 30 | 8.5 | 1.81 | 8 S | 1.04 | | 0.737 | 1 | 0.06 | | 0.490 E | 3 | 0.13 | 30 |
| 31 | | 1.65 | 8 | 0.75 | 11.0 | 0.887 | 1 S | 0.06 | | | | | 31 |
| TOTAL | | 83.33 | | 58.29 | | 27.632 | | 5.34 | | 19.881 | | 4.18 | TOTAL |
| MEAN | | 3.01 | | 1.82 | | 0.898 | | 0.17 | | 0.858 | | 0.14 | MEAN |

BRITISH COLUMBIA

FIVE MILE CREEK ABOVE CITY INTAKE - STATION NO. 08NJ188

SUSPENDED SEDIMENT FOR 1983

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.487 E | 2 | 0.08 | | 1.03 | 15 | 1.33 | | 0.600 B | 2 | 0.10 | 1 |
| 2 | 2.5 | 0.465 A | 1 S | 0.04 | 4.0 | 0.958 | 17 S | 1.42 | | 0.570 B | 2 | 0.10 | 2 |
| 3 | | 0.480 E | 1 | 0.04 | | 3.33 | 33 | 8.49 | | 0.580 B | 2 | 0.10 | 3 |
| 4 | | 0.500 E | 1 | 0.04 | | 4.28 | 21 | 7.77 | 0.1 | 0.588 B | 2 S | 0.10 | 4 |
| 5 | 4.0 | 0.477 A | 1 S | 0.04 | | 3.85 | 14 | 3.45 | | 0.570 B | 2 | 0.10 | 5 |
| 6 | | 0.480 E | 2 | 0.08 | 3.0 | 2.47 | 11 S | 2.35 | | 0.558 B | 2 | 0.10 | 6 |
| 7 | | 0.468 E | 1 | 0.04 | | 2.19 | 8 | 1.51 | | 0.538 B | 2 | 0.09 | 7 |
| 8 | | 0.460 E | 1 | 0.04 | | 1.89 | 4 | 0.65 | | 0.530 B | 1 | 0.05 | 8 |
| 9 | 3.0 | 0.438 A | 1 S | 0.04 | 1.5 | 1.71 | 0 S | 0 | | 0.525 B | 1 | 0.05 | 9 |
| 10 | | 0.420 E | 2 | 0.07 | | 1.48 | 1 | 0.13 | | 0.528 B | 1 | 0.05 | 10 |
| 11 | | 0.400 E | 1 | 0.03 | | 1.87 | 4 | 0.68 | 0.5 | 0.535 B | 1 S | 0.05 | 11 |
| 12 | 3.0 | 0.390 A | 1 S | 0.02 | | 1.85 | 5 | 0.67 | | 0.535 B | 2 | 0.09 | 12 |
| 13 | | 0.385 E | 2 | 0.07 | 3.0 | 1.39 | 6 S | 0.72 | | 0.530 B | 2 | 0.09 | 13 |
| 14 | | 0.385 E | 2 | 0.07 | | 1.25 | 6 | 0.67 | | 0.520 B | 2 | 0.09 | 14 |
| 15 | | 0.370 E | 1 | 0.03 | | 1.26 | 4 | 0.44 | 3.0 | 0.514 B | 2 S | 0.09 | 15 |
| 16 | 3.0 | 0.360 A | 1 S | 0.03 | 2.5 | 1.35 | 2 S | 0.23 | | 0.510 B | 2 | 0.09 | 16 |
| 17 | | 0.385 E | 2 | 0.09 | | 1.28 | 2 | 0.22 | | 0.498 B | 1 | 0.04 | 17 |
| 18 | | 0.370 E | 3 | 0.10 | | 1.30 | 1 | 0.10 | 0.1 | 0.480 B | 1 S | 0.04 | 18 |
| 19 | | 0.384 A | 4 S | 0.13 | | 1.14 | 1 | 0.10 | | 0.478 B | 1 | 0.04 | 19 |
| 20 | | 0.390 E | 4 | 0.13 | 2.0 | 1.08 | 1 S | 0.09 | | 0.485 B | 1 | 0.04 | 20 |
| 21 | | 0.400 E | 3 | 0.10 | | 1.03 | 2 | 0.18 | | 0.485 B | 1 | 0.04 | 21 |
| 22 | | 0.788 E | 4 | 0.28 | | 1.00 | 2 | 0.17 | | 0.490 B | 1 | 0.04 | 22 |
| 23 | 2.0 | 0.735 A | 2 S | 0.13 | 1.0 | 0.977 | 4 S | 0.34 | | 0.448 B | 1 | 0.04 | 23 |
| 24 | | 0.615 E | 1 | 0.05 | | 0.832 | 4 | 0.32 | | 0.460 B | 1 | 0.04 | 24 |
| 25 | | 0.571 E | 1 | 0.05 | | 0.822 | 4 | 0.32 | 0.1 | 0.430 B | 1 S | 0.04 | 25 |
| 26 | 3.0 | 0.535 A | 1 S | 0.05 | | 0.891 | 2 | 0.15 | | 0.410 B | 1 | 0.04 | 26 |
| 27 | | 0.524 E | 1 | 0.05 | 1.0 | 0.853 | 2 S | 0.15 | | 0.415 B | 1 | 0.04 | 27 |
| 28 | | 0.522 E | 1 | 0.05 | | 0.777 | 2 | 0.13 | | 0.410 B | 1 | 0.04 | 28 |
| 29 | | 0.522 | 1 | 0.05 | | 0.750 B | 2 | 0.13 | | 0.405 B | 1 | 0.03 | 29 |
| 30 | 3.0 | 0.852 | 5 S | 0.24 | | 0.880 B | 2 | 0.12 | | 0.410 B | 1 | 0.04 | 30 |
| 31 | | 1.02 | 10 | 0.88 | | | | | | 0.415 B | 2 | 0.07 | 31 |
| TOTAL | | 15.178 | | 3.10 | | 44.228 | | 33.93 | | 15.309 | | 1.95 | TOTAL |
| MEAN | | 0.489 | | 0.10 | | 1.47 | | 1.13 | | 0.494 | | 0.06 | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 05 N
LONG 117 13 44 W

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY.

NATURAL FLOW

BRITISH COLUMBIA

FORT NELSON RIVER ABOVE MUSKWA RIVER - STATION NO. 10CC002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12.0 B | | | | 5.80 B | | | | 5.40 B | | | 1 |
| 2 | | 10.7 B | | | | 5.68 B | | | | 5.41 B | | | 2 |
| 3 | | 10.0 B | | | | 5.97 B | | | | 5.80 B | | | 3 |
| 4 | | 9.10 B | | | | 6.00 B | | | | 5.80 B | | | 4 |
| 5 | | 8.00 B | | | | 5.80 B | | | | 5.83 B | | | 5 |
| 6 | | 7.58 B | | | | 5.85 B | | | | 5.40 B | | | 6 |
| 7 | | 7.38 B | | | | 5.90 B | | | | 5.43 B | | | 7 |
| 8 | | 7.30 B | | | | 5.82 B | | | | 5.80 B | | | 8 |
| 9 | | 7.10 B | | | | 5.80 B | | | | 5.75 B | | | 9 |
| 10 | | 6.90 B | | | | 5.83 B | | | | 6.18 B | | | 10 |
| 11 | | 6.65 B | | | | 5.78 B | | | | 5.97 B | | | 11 |
| 12 | | 6.55 B | | | | 5.85 B | | | | 5.75 B | | | 12 |
| 13 | | 6.58 B | | | | 6.02 B | | | | 5.80 B | | | 13 |
| 14 | | 6.55 B | | | | 5.70 B | | | | 5.75 B | | | 14 |
| 15 | | 6.53 B | | | | 5.58 B | | | | 6.00 B | | | 15 |
| 16 | | 6.50 B | | | | 5.40 B | | | | 6.10 B | | | 16 |
| 17 | | 6.57 B | | | | 5.25 E | | | | 6.13 B | | | 17 |
| 18 | | 6.85 B | | | | 5.35 E | | | | 6.02 B | | | 18 |
| 19 | | 6.72 B | | | | 5.35 E | | | | 5.90 B | | | 19 |
| 20 | | 6.60 B | | | | 5.65 E | | | | 5.80 B | | | 20 |
| 21 | | 6.98 B | | | | 5.60 E | | | | 5.68 B | | | 21 |
| 22 | | 6.76 B | | | | 5.50 E | | | | 5.55 B | | | 22 |
| 23 | | 6.45 B | | | | 5.60 E | | | | 5.45 B | | | 23 |
| 24 | | 6.18 B | | | | 5.75 B | | | | 5.40 B | | | 24 |
| 25 | | 6.02 B | | | | 5.60 E | | | | 5.43 B | | | 25 |
| 26 | | 5.90 B | | | | 5.55 E | | | | 5.42 B | | | 26 |
| 27 | | 6.02 B | | | | 5.35 E | | | | 5.40 B | | | 27 |
| 28 | | 6.10 B | | | | 5.42 B | | | | 5.39 B | | | 28 |
| 29 | | 6.10 B | | | | | | | | 5.40 B | | | 29 |
| 30 | | 6.02 B | | | | | | | | 5.50 B | | | 30 |
| 31 | | 5.90 B | | | | | | | | 5.70 B | | | 31 |
| TOTAL | | 220.89 | | | | 154.56 | | | | 175.33 | | | TOTAL |
| MEAN | | 7.12 | | | | 5.88 | | | | 5.88 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5.82 B | | | | 507 | 1 190 | 52 100 | | 372 E | 255 S | 8 200 | 1 |
| 2 | | 5.97 B | | | | 478 | 1 130 | 45 700 | | 381 E | 348 | 11 500 | 2 |
| 3 | | 5.86 B | | | 5.0 | 453 | 1 010 S | 39 500 | | 330 E | 382 | 10 900 | 3 |
| 4 | | 6.00 B | | | | 438 | 912 | 34 400 | | 280 E | 345 S | 8 640 | 4 |
| 5 | | 6.06 B | | | 5.0 | 430 | 831 S | 30 200 | | 280 E | 300 | 9 740 | 5 |
| 6 | | 5.80 B | | | | 404 | 705 | 24 800 | | 256 E | 286 | 5 970 | 6 |
| 7 | | 5.88 B | | | | 388 | 616 | 21 100 | | 225 E | 258 | 5 280 | 7 |
| 8 | | 5.48 B | | | | 417 | 745 | 25 800 | | 200 E | 270 | 4 870 | 8 |
| 9 | | 5.62 B | | | 5.0 | 581 | 2 070 S | 104 000 | | 197 E | 257 S | 4 370 | 9 |
| 10 | | 5.61 B | | | | 843 | 3 400 | 189 000 | | 216 E | 263 | 4 770 | 10 |
| 11 | | 5.98 B | | | 7.0 | 841 | 2 850 S | 183 000 | | 270 E | 287 | 6 700 | 11 |
| 12 | | 6.84 B | | | | 606 | 2 290 | 120 000 | | 370 E | 706 | 22 800 | 12 |
| 13 | | 7.40 B | | | | 551 | 1 610 S | 78 800 | | 394 E | 2 360 S | 80 300 | 13 |
| 14 | | 8.00 B | | | | 483 | 1 050 | 45 000 | 13.0 | 321 A | 3 550 S | 98 500 | 14 |
| 15 | | 12.7 B | | | | 442 | 780 | 28 800 | | 288 | 1 880 S | 48 300 | 15 |
| 16 | | 19.0 B | | | | 415 | 712 | 25 500 | | 255 | 1 050 | 23 100 | 16 |
| 17 | | 26.0 B | | | | 406 | 724 S | 25 300 | | 317 A | 758 | 14 200 | 17 |
| 18 | | 40.0 B | | | | 397 | 746 S | 25 800 | | 200 E | 810 | 10 500 | 18 |
| 19 | | 58.0 B | | | | 388 A | 733 | 24 500 | | 183 E | 488 | 7 840 | 19 |
| 20 | | 88.0 B | | | | 342 F | 727 S | 21 500 | | 382 A | 876 S | 23 000 | 20 |
| 21 | | 131 B | | | | 310 E | 885 | 17 800 | | 714 A | 7 130 | 440 000 | 21 |
| 22 | | 186 B | | | | 278 E | 867 | 13 000 | | 588 | 5 660 S | 289 000 | 22 |
| 23 | | 260 B | | | | 280 E | 670 S | 10 300 | | 462 | 3 020 | 128 000 | 23 |
| 24 | | 440 B | | | | 330 E | 435 | 8 640 | | 414 | 1 640 S | 95 800 | 24 |
| 25 | | 628 | | | | 318 E | 488 S | 8 670 | | 385 | 1 430 | 48 100 | 25 |
| 26 | | 868 | | | | 306 E | 894 | 6 880 | | 324 | 1 110 | 31 100 | 26 |
| 27 | | 828 | | | | 198 E | 535 S | 8 920 | | 284 | 796 S | 19 800 | 27 |
| 28 | | 988 | | | | 187 E | 520 | 8 780 | | 268 A | 857 | 19 200 | 28 |
| 29 | | 827 | | | | 182 E | 334 | 5 250 | | 300 A | 651 S | 9 520 | 29 |
| 30 | | 824 | | | | 245 E | 375 S | 5 820 | | 165 A | 443 | 7 089 | 30 |
| 31 | | | | | | 320 E | 240 | 6 640 | | | | | 31 |
| TOTAL | | 4 942.84 | | | | 12 044 | | 1 225 000 | | 9 481 | | 1 452 480 | TOTAL |
| MEAN | | 165 | | | | 388 | | 39 600 | | 315 | | 48 400 | MEAN |

FORT NELSON RIVER ABOVE MUSKWA RIVER - STATION NO. 10CC002

SUSPENDED SEDIMENT FOR 1983

| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **JUL** | | | | |
| 1 | | 178 E | 385 S | 5 820 |
| 2 | | 185 E | 303 | 5 100 |
| 3 | | 228 E | 297 | 5 770 |
| 4 | | 268 A | 896 S | 15 500 |
| 5 | | 274 | 1 630 | 38 600 |
| 6 | | 282 A | 1 360 S | 30 000 |
| 7 | | 248 E | 1 150 | 24 800 |
| 8 | | 236 A | 872 S | 18 400 |
| 9 | | 223 | 689 | 17 500 |
| 10 | | 237 | 785 | 18 100 |
| 11 | | 217 A | 638 S | 12 000 |
| 12 | | 208 E | 610 | 9 330 |
| 13 | | 196 E | 411 S | 7 030 |
| 14 | | 187 E | 334 | 5 400 |
| 15 | | 176 E | 288 S | 4 050 |
| 16 | | 169 E | 230 | 3 360 |
| 17 | | 169 E | 208 | 3 030 |
| 18 | | 161 E | 178 S | 2 320 |
| 19 | | 148 E | 164 | 1 930 |
| 20 | | 140 E | 153 S | 1 850 |
| 21 | | 134 E | 185 | 1 910 |
| 22 | | 130 E | 178 S | 1 880 |
| 23 | | 183 E | 230 | 2 910 |
| 24 | | 177 E | 516 | 7 890 |
| 25 | | 183 E | 617 S | 11 500 |
| 26 | | 150 E | 864 | 7 310 |
| 27 | | 140 E | 338 S | 4 080 |
| 28 | | 271 A | 1 990 | 45 700 |
| 29 | | 408 | 4 350 S | 154 000 |
| 30 | 11.0 | 352 | 3 140 S | 95 500 |
| 31 | | 311 | 2 350 | 80 500 |
| TOTAL | | 6 475 | | 822 220 |
| MEAN | | 209 | | 30 100 |
| **AUG** | | | | |
| TEMP. (°C) | | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
| | | 278 | 1 350 | 32 200 |
| | | 240 | 772 S | 16 000 |
| 18.0 | | 218 | 678 | 12 800 |
| | | 182 | 886 S | 8 670 |
| 20.0 | | 176 | 802 | 7 930 |
| | | 164 | 424 S | 5 780 |
| 20.0 | | 138 | 371 | 4 480 |
| | | 123 | 317 S | 3 370 |
| 20.0 | | 112 A | 285 | 2 880 |
| | | 106 E | 227 S | 2 080 |
| 18.0 | | 87.5 E | 193 | 1 630 |
| | | 80.0 E | 188 S | 1 310 |
| 16.0 | | 82.0 E | 161 | 1 180 |
| | | 77.6 A | 152 | 1 020 |
| | | 76.1 | 142 | 934 |
| | | 70.8 | 131 | 802 |
| | | 68.4 | 110 | 631 |
| 18.0 | | 65.8 | 83 S | 529 |
| | | 74.3 | 130 | 770 |
| | | 103 | 168 | 1 480 |
| | | 131 | 248 | 2 820 |
| | | 165 | 338 | 4 380 |
| | | 164 | 313 | 4 440 |
| | | 150 | 268 | 3 480 |
| | | 133 | 231 | 2 850 |
| | | 119 | 189 | 1 840 |
| | | 108 | 152 | 1 390 |
| 17.0 | | 94.1 | 116 S | 943 |
| | | 82.8 | 97 | 884 |
| | | 74.2 | 90 | 877 |
| | | 68.2 | 84 | 495 |
| | | 3 618.9 | | 130 645 |
| | | 123 | | 4 210 |
| **SEP** | | | | |
| TEMP. (°C) | | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
| | | 85.7 | 82 | 486 |
| | | 83.8 | 80 | 442 |
| | | 81.0 | 80 | 432 |
| | | 88.6 | 78 | 384 |
| | | 88.7 | 67 | 328 |
| | | 55.1 | 83 | 300 |
| 11.0 | | 57.2 | 84 S | 415 |
| | | 85.6 | 118 | 848 |
| | | 74.7 | 186 | 1 010 |
| | | 81.8 | 184 | 1 300 |
| | | 84.9 | 208 | 1 500 |
| | | 87.4 | 213 | 1 610 |
| | | 87.1 | 186 | 1 390 |
| | | 82.7 | 156 | 1 130 |
| | | 77.6 | 137 | 919 |
| | | 71.9 | 118 | 731 |
| | | 86.5 | 85 | 903 |
| 11.0 | | 85.1 | 68 S | 308 |
| | | 82.0 | 47 | 252 |
| | | 86.9 | 46 | 339 |
| | | 87.1 | 44 | 317 |
| | | 86.6 | 43 | 306 |
| | | 83.8 | 40 | 185 |
| | | 81.4 | 39 | 173 |
| | | 48.6 | 37 | 158 |
| 8.0 | | 80.1 A | 34 S | 147 |
| | | 80.4 E | 32 | 138 |
| | | 80.0 E | 34 | 147 |
| | | 48.8 E | 34 | 143 |
| | | 47.2 E | 38 | 155 |
| | | 1 698.1 | | 15 848 |
| | | 83.3 | | 532 |

| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **OCT** | | | | |
| 1 | 1.0 | 47.3 A | 41 S | 168 |
| 2 | | 46.8 A | 39 | 154 |
| 3 | | 46.4 A | 38 | 141 |
| 4 | | 46.1 A | 34 | 135 |
| 5 | | 46.8 A | 32 | 129 |
| 6 | | 46.4 E | 31 | 124 |
| 7 | | 46.2 E | 31 | 121 |
| 8 | | 46.4 E | 30 | 116 |
| 9 | | 43.7 E | 30 | 113 |
| 10 | 2.0 | 42.7 E | 30 S | 111 |
| 11 | | 41.8 E | 29 | 105 |
| 12 | | 40.8 A | 29 | 102 |
| 13 | | 39.8 E | 28 | 96 S |
| 14 | | 39.8 E | 28 | 93.1 |
| 15 | | 38.7 E | 27 | 90.3 |
| 16 | | 38.8 B | | |
| 17 | | 38.5 B | | |
| 18 | | 38.3 B | | |
| 19 | | 34.5 B | | |
| 20 | | 33.7 B | | |
| 21 | | 33.6 B | | |
| 22 | | 33.4 B | | |
| 23 | | 30.5 B | | |
| 24 | | 29.1 B | | |
| 25 | | 28.2 B | | |
| 26 | | 26.6 B | | |
| 27 | | 26.0 B | | |
| 28 | | 24.9 B | | |
| 29 | | 24.3 B | | |
| 30 | | 23.8 B | | |
| 31 | | 23.6 B | | |
| TOTAL | | 1 142.9 | | |
| MEAN | | 36.9 | | |
| **NOV** | | | | |
| TEMP. (°C) | | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
| | | 23.2 B | | |
| | | 22.5 B | | |
| | | 21.8 B | | |
| | | 21.5 B | | |
| | | 20.8 B | | |
| | | 19.4 B | | |
| | | 18.6 B | | |
| | | 18.7 B | | |
| | | 18.3 B | | |
| | | 17.8 B | | |
| | | 17.0 B | | |
| | | 17.1 B | | |
| | | 18.7 B | | |
| | | 18.0 B | | |
| | | 18.3 B | | |
| | | 14.7 B | | |
| | | 14.8 B | | |
| | | 14.7 B | | |
| | | 14.3 B | | |
| | | 13.6 B | | |
| | | 12.8 B | | |
| | | 12.6 B | | |
| | | 11.8 B | | |
| | | 11.7 B | | |
| | | 11.8 B | | |
| | | 12.0 B | | |
| | | 11.8 B | | |
| | | 11.8 B | | |
| | | 10.8 B | | |
| | | 10.2 B | | |
| | | 473.4 | | |
| | | 15.8 | | |
| **DEC** | | | | |
| TEMP. (°C) | | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
| | | 10.0 B | | |
| | | 10.1 B | | |
| | | 10.2 B | | |
| | | 10.3 B | | |
| | | 9.86 B | | |
| | | 9.50 B | | |
| | | 8.86 B | | |
| | | 8.95 B | | |
| | | 8.35 B | | |
| | | 8.30 B | | |
| | | 8.33 B | | |
| | | 8.24 B | | |
| | | 8.25 B | | |
| | | 8.00 B | | |
| | | 7.70 B | | |
| | | 7.50 E | | |
| | | 7.55 B | | |
| | | 7.50 B | | |
| | | 7.61 B | | |
| | | 7.70 B | | |
| | | 7.60 B | | |
| | | 7.50 B | | |
| | | 7.45 B | | |
| | | 7.48 B | | |
| | | 7.50 B | | |
| | | 7.43 B | | |
| | | 7.41 B | | |
| | | 7.38 B | | |
| | | 7.35 B | | |
| | | 7.30 B | | |
| | | 7.31 B | | |
| | | 284.58 | | |
| | | 9.21 | | |

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 40 15 N
LONG 122 36 15 W
DRAINAGE AREA 22 800 km²
NATURAL FLOW

TOTAL MEAN

BRITISH COLUMBIA

FORT NELSON RIVER ABOVE MUSKWA RIVER - STATION NO. 10CC002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 09 | 07:40 | 881 | H | 5.0 | 1 | 340 K | 11 | 18 | 27 | 41 | 55 | 73 | 88 | 98 | 99 | 100 | | BNW |
| MAY 11 | 15:00 | 841 | H | 7.0 | 2 | 580 K | 13 | 21 | 30 | 46 | 60 | 80 | 87 | 75 | 83 | 92 | 100 | BNW |
| MAY 13 | 18:08 | 881 | H | | 1 | 280 K | 18 | 30 | 48 | 67 | 78 | 84 | 93 | 98 | 99 | 100 | | BNW |
| MAY 17 | 10:02 | 387 | | | | 730 R | 17 | 28 | 38 | 51 | 64 | 78 | 88 | 94 | 98 | 100 | | BNW |
| MAY 20 | 12:58 | 342 | | | | 867 K | 23 | 32 | 48 | 60 | 72 | 82 | 91 | 96 | 100 | | | BNW |
| MAY 27 | 14:35 | 189 | | | | 490 K | 12 | 18 | 27 | 38 | 47 | 57 | 67 | 77 | 81 | 100 | | BNW |
| JUN 04 | 13:18 | 280 | | | | 330 K | 24 | 36 | 53 | 70 | 79 | 84 | 88 | 96 | 99 | 100 | | BNW |
| JUN 09 | 14:50 | 187 | | | | 355 K | 27 | 47 | 56 | 65 | 70 | 75 | 80 | 89 | 99 | 100 | | BNW |
| JUN 14 | 17:07 | 330 | | 13.0 | 3 | 280 R | 33 | 48 | 62 | 76 | 86 | 94 | 98 | 100 | | | | BNW |
| JUN 20 | 12:25 | 382 | H | | | 440 K | 19 | 28 | 36 | 45 | 53 | 60 | 71 | 87 | 98 | 100 | | BNW |
| JUN 27 | 08:08 | 284 | H | | | 782 K | 23 | 32 | 43 | 55 | 68 | 81 | 91 | 96 | 98 | 100 | | BNW |
| JUL 04 | 10:14 | 386 | H | | | 440 K | 9 | 18 | 28 | 40 | 55 | 71 | 84 | 93 | 98 | 100 | | BNW |
| JUL 08 | 15:55 | 252 | H | | 1 | 330 K | 28 | 40 | 57 | 74 | 84 | 88 | 95 | 99 | 100 | | | BNW |
| JUL 08 | 08:10 | 238 | H | | 1 | 010 K | 27 | 38 | 51 | 68 | 78 | 82 | 91 | 98 | 100 | | | BNW |
| JUL 13 | 09:17 | 188 | | | | 417 K | 21 | 33 | 48 | 66 | 84 | 70 | 78 | 90 | 98 | 100 | | BNW |
| JUL 27 | 13:12 | 140 | | | | 328 K | 32 | 41 | 57 | 67 | 74 | 81 | 88 | 99 | 100 | | | BNW |
| JUL 29 | 08:11 | 408 | H | | 4 | 870 K | 22 | 33 | 45 | 61 | 78 | 88 | 98 | 100 | | | | BNW |
| JUL 30 | 13:26 | 372 | | 11.0 | 3 | 140 R | 30 | 41 | 58 | 72 | 85 | 94 | 98 | 100 | | | | BNW |
| AUG 02 | 07:33 | 340 | H | 18.0 | | 772 K | 23 | 30 | 41 | 56 | 70 | 83 | 94 | 98 | 100 | | | BNW |
| AUG 04 | 14:43 | 182 | H | 20.0 | | 594 K | 24 | 34 | 46 | 62 | 74 | 82 | 89 | 96 | 98 | 100 | | BNW |
| AUG 08 | 14:24 | 158 | H | 20.0 | | 416 K | 21 | 28 | 40 | 52 | 60 | 68 | 84 | 95 | 99 | 100 | | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

FRASER RIVER AT HARRARD - STATION NO. 08KA005

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 83.1 S | | | | 78.8 S | | | | 98.0 S | | | 1 |
| 2 | | 83.0 S | | | | 78.3 S | | | | 99.0 S | | | 2 |
| 3 | | 83.0 S | | | | 78.8 S | | | | 100 S | | | 3 |
| 4 | | 83.8 S | | | | 78.6 S | | | | 101 S | | | 4 |
| 5 | | 83.0 S | | | | 78.0 S | | | | 103 S | | | 5 |
| 6 | | 81.8 S | | | | 77.8 S | | | | | | | 6 |
| 7 | | 81.8 S | | | | 77.0 S | | | | 103 S | | | 7 |
| 8 | | 82.0 S | | | | 78.0 S | | | | 104 S | | | 8 |
| 9 | | 82.0 S | | | | 78.5 S | | | | 104 S | | | 9 |
| 10 | | 83.0 S | | | | 79.0 S | | | | 104 S | | | 10 |
| 11 | | 82.0 S | | | | | | | | 105 S | | | 11 |
| 12 | | 82.0 S | | | | 78.5 S | | | | | | | 12 |
| 13 | | 82.0 S | | | | 80.0 S | | | | 108 S | | | 13 |
| 14 | | 82.0 S | | | | 80.3 S | | | | 108 S | | | 14 |
| 15 | | 83.0 S | | | | 81.2 S | | | | 108 S | | | 15 |
| 16 | | 82.0 S | | | | 82.0 S | | | | 107 S | | | 16 |
| 17 | | 82.0 S | | | | | | | | 107 S | | | 17 |
| 18 | | 82.0 S | | | | 83.0 S | | | | | | | 18 |
| 19 | | 82.0 S | | | | 84.0 S | | | | 107 S | | | 19 |
| 20 | | 81.8 S | | | | 85.0 S | | | | 107 S | | | 20 |
| 21 | | 81.8 S | | | | 86.0 S | | | | 107 S | | | 21 |
| 22 | | 81.0 S | | | | 87.0 S | | | | 108 S | | | 22 |
| 23 | | 80.5 S | | | | | | | | | | | 23 |
| 24 | | 80.5 S | | | | 88.0 S | | | | 108 S | | | 24 |
| 25 | | 80.7 S | | | | 90.0 S | | | | 108 S | | | 25 |
| 26 | | 80.5 S | | | | 91.0 S | | | | 108 S | | | 26 |
| 27 | | 78.8 S | | | | 92.0 S | | | | 108 S | | | 27 |
| 28 | | 80.0 S | | | | 93.0 S | | | | 104 S | | | 28 |
| 29 | | 80.0 S | | | | | | | | | | | 29 |
| 30 | | 80.0 S | | | | 94.0 S | | | | 104 S | | | 30 |
| 31 | | 80.0 S | | | | 95.0 S | | | | 103 S | | | 31 |
| | | | | | | 96.0 S | | | | 102 S | | | |
| | | | | | | | | | | 101 S | | | |
| | | | | | | | | | | 101 S | | | |
| | | | | | | | | | | 101 S | | | |
| TOTAL | | 2 527.7 | | | | 2 382.4 | | | | 3 323.0 | | | TOTAL |
| MEAN | | 81.5 | | | | 84.0 | | | | 104 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 100 S | | | | 345 | 44 | 1 310 | | 1 420 | 515 S | 63 600 | 1 |
| 2 | | 101 S | | | | 350 | 43 S | 1 300 | | 1 360 | 493 S | 58 000 | 2 |
| 3 | | 101 S | | | | 358 | 42 S | 1 280 | | 1 350 | 348 S | 37 400 | 3 |
| 4 | | 104 S | | | | 368 | 47 S | 1 480 | | 1 100 | 268 S | 24 300 | 4 |
| 5 | | 108 S | | | | 372 | 48 S | 1 480 | | 980 | 194 S | 18 400 | 5 |
| 6 | | 107 S | | | | | | | | | | | 6 |
| 7 | | 109 S | | | | 383 | 40 S | 1 320 | | 915 | 139 | 10 700 | 7 |
| 8 | | 111 S | | | | 422 | 80 | 2 180 | | 884 | 183 S | 13 800 | 8 |
| 9 | | 113 S | | | | 473 | 101 | 4 130 | | 1 080 | 208 S | 18 800 | 9 |
| 10 | | 116 S | | | | 481 | 105 S | 4 410 | | 1 010 | 142 | 12 400 | 10 |
| 11 | | 121 S | | | | 446 | 77 S | 3 070 | | 1 100 | 171 S | 16 300 | 11 |
| 12 | | 127 S | | | | 402 | 68 S | 1 700 | | 1 200 | 230 | 23 000 | 12 |
| 13 | | 131 S | | | | 358 | 30 S | 928 | | 1 110 | 187 S | 17 900 | 13 |
| 14 | | 133 S | | | | 338 | 32 S | 972 | 13.0 | 894 | 131 S | 10 400 | 14 |
| 15 | | 141 | | | | 336 | 35 S | 1 020 | | 907 | 87 S | 6 820 | 15 |
| | | | | | | 354 | 41 S | 1 280 | | 843 | 138 | 9 180 | |
| 16 | | 162 | | | | 382 | 62 S | 2 050 | | 848 | 103 S | 7 810 | 16 |
| 17 | | 149 | | | | 407 | 61 S | 2 350 | | 895 | 75 S | 5 800 | 17 |
| 18 | | 160 | | | 5.0 | 446 | 54 S | 3 060 | | 863 | 87 S | 6 970 | 18 |
| 19 | | 181 | | | | 478 | 55 | 3 640 | | 1 060 | 110 S | 10 100 | 19 |
| 20 | | 214 | | | | 466 | 55 S | 2 780 | | 1 230 | 108 S | 17 600 | 20 |
| 21 | | 280 | | | | 405 | 55 S | 2 380 | | 1 390 | 170 S | 18 900 | 21 |
| 22 | | 312 | | | | 851 | 232 | 13 000 | | 1 080 | 135 S | 12 700 | 22 |
| 23 | | 385 | | | | 880 | 218 S | 12 800 | | 931 | 85 S | 6 840 | 23 |
| 24 | | 348 | | | | 848 | 108 | 6 030 | | 901 | 85 S | 5 080 | 24 |
| 25 | | 354 | | | | 895 | 83 S | 4 880 | | 881 | 76 S | 5 240 | 25 |
| 26 | | 377 | | | | 780 | 116 S | 7 480 | | 840 | 85 S | 5 980 | 26 |
| 27 | | 388 | | | | 826 | 185 S | 13 200 | | 852 | 84 S | 6 710 | 27 |
| 28 | | 340 | | | | 765 | 180 S | 12 200 | | 770 | 84 S | 5 990 | 28 |
| 29 | | 327 | | | | 622 | 117 | 6 310 | | 724 | 83 S | 5 220 | 29 |
| 30 | | 331 | | | 1 | 080 | 242 | 22 600 | | 732 | 83 | 5 290 | 30 |
| 31 | | | | | 1 | 220 | 488 S | 85 000 | | | | | 31 |
| TOTAL | | 5 831 | | | 15 | 716 | | 187 390 | | 30 404 | | 491 510 | TOTAL |
| MEAN | | 188 | | | | 539 | | 6 370 | | 1 010 | | 15 400 | MEAN |

BRITISH COLUMBIA

FRASER RIVER AT HANSARD - STATION NO. 08KA004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 859 | 73 S | 5 420 | | 611 | 82 S | 3 270 | | 384 | 82 | 1 950 | 1 |
| 2 | | 905 | 153 S | 11 900 | | 847 | 121 | 8 760 | | 377 | 81 | 2 640 | 2 |
| 3 | | 830 | 187 S | 13 400 | | 885 | 184 | 10 900 | | 485 | 146 S | 5 740 | 3 |
| 4 | | 765 | 136 S | 8 550 | | 894 | 103 S | 8 770 | | 532 | 200 | 8 190 | 4 |
| 5 | | 749 | 73 S | 4 980 | | 855 | 118 | 8 680 | | 582 | 180 S | 9 050 | 5 |
| 6 | | 782 | 82 S | 5 610 | | 831 | 88 S | 4 420 | | 587 | 123 | 6 030 | 6 |
| 7 | | 778 | 75 S | 5 040 | | 858 | 73 | 3 520 | | 512 | 83 S | 3 670 | 7 |
| 8 | | 758 | 103 S | 6 780 | | 845 | 72 S | 3 300 | | 478 | 82 | 2 800 | 8 |
| 9 | | 742 | 73 S | 4 680 | | 833 | 104 | 4 780 | | 438 | 67 S | 1 780 | 9 |
| 10 | | 858 | 74 S | 4 380 | | 826 | 140 S | 8 280 | | 385 | 34 | 1 130 | 10 |
| 11 | | 847 | 82 S | 3 520 | | 884 | 170 | 8 140 | | 348 | 25 | 752 | 11 |
| 12 | | 783 | 82 S | 8 330 | | 895 | 172 | 8 640 | | 324 | 21 | 588 | 12 |
| 13 | 1 | 050 | 144 S | 13 100 | | 802 | 134 S | 8 970 | | 305 | 23 S | 580 | 13 |
| 14 | 1 | 180 | 187 S | 18 800 | | 844 | 118 | 8 410 | | 294 | 23 S | 584 | 14 |
| 15 | 1 | 240 | 232 S | 24 800 | | 827 | 127 S | 8 780 | | 256 | 21 S | 541 | 15 |
| 16 | 1 | 250 | 224 S | 24 200 | | 886 | 130 | 8 380 | | 335 | 20 | 578 | 16 |
| 17 | 1 | 140 | 130 S | 11 800 | | 832 | 102 S | 6 880 | | 352 | 26 S | 782 | 17 |
| 18 | 1 | 020 | 108 S | 8 810 | | 808 | 81 | 4 000 | | 385 | 32 | 1 080 | 18 |
| 19 | | 812 | 120 S | 8 480 | | 488 | 82 S | 3 870 | | 356 | 28 | 857 | 19 |
| 20 | | 838 | 118 S | 8 830 | | 488 | 82 | 3 280 | | 324 | 21 | 884 | 20 |
| 21 | | 818 | 82 S | 5 780 | | 412 | 88 S | 3 380 | | 301 | 18 S | 488 | 21 |
| 22 | | 818 | 81 S | 5 720 | | 383 | 82 | 2 080 | | 287 | 17 | 422 | 22 |
| 23 | | 787 | 83 S | 5 730 | | 358 | 82 | 1 820 | | 268 | 17 | 423 | 23 |
| 24 | | 728 | 87 S | 4 210 | | 348 | 82 S | 1 870 | | 268 | 15 | 371 | 24 |
| 25 | | 688 | 83 S | 3 800 | | 350 | 82 | 1 870 | | 281 | 15 | 384 | 25 |
| 26 | | 722 | 88 S | 4 240 | | 384 | 81 | 1 870 | | 278 | 15 | 380 | 26 |
| 27 | | 782 | 84 S | 6 490 | | 358 | 80 S | 1 880 | | 275 | 15 | 380 | 27 |
| 28 | | 783 | 79 S | 5 340 | | 357 | 80 | 1 880 | | 283 | 21 | 517 | 28 |
| 29 | | 710 | 87 S | 4 110 | | 357 | 80 S | 1 880 | | 289 | 20 | 498 | 29 |
| 30 | | 668 | 83 S | 3 840 | | 352 | 80 | 1 820 | | 288 | 16 | 418 | 30 |
| 31 | | 835 | 82 S | 3 850 | | 356 | 81 S | 1 880 | | | | | 31 |
| TOTAL | | 26 083 | | 251 780 | | 15 386 | | 136 370 | | 10 882 | | 84 883 | TOTAL |
| MEAN | | 841 | | 8 120 | | 497 | | 4 480 | | 362 | | 1 830 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 248 | | | | 512 | | | | 127 B | | | 1 |
| 2 | | 235 | | | | 552 | | | | 110 B | | | 2 |
| 3 | | 231 | | | | 508 | | | | 99.0 B | | | 3 |
| 4 | | 228 | | | | 457 | | | | 96.0 B | | | 4 |
| 5 | | 248 | | | | 431 | | | | 95.5 B | | | 5 |
| 6 | | 273 | | | | 407 | | | | 93.0 B | | | 6 |
| 7 | | 268 | | | | 380 | | | | 92.0 B | | | 7 |
| 8 | | 253 | | | | 369 | | | | 90.0 B | | | 8 |
| 9 | | 239 | | | | 341 | | | | 90.0 B | | | 9 |
| 10 | | 237 | | | | 319 | | | | 89.5 B | | | 10 |
| 11 | | 218 | | | | 295 | | | | 88.0 B | | | 11 |
| 12 | | 209 | | | | 284 | | | | 86.5 B | | | 12 |
| 13 | | 203 | | | | 277 | | | | 89.0 B | | | 13 |
| 14 | | 200 | | | | 270 | | | | 88.0 B | | | 14 |
| 15 | | 201 | | | | 269 | | | | 84.5 B | | | 15 |
| 16 | | 204 | | | | 283 | | | | 83.5 B | | | 16 |
| 17 | | 200 | | | | 284 | | | | 82.0 B | | | 17 |
| 18 | | 192 | | | | 288 | | | | 80.5 B | | | 18 |
| 19 | | 188 | | | | 253 | | | | 78.5 B | | | 19 |
| 20 | | 185 | | | | 247 | | | | 78.0 B | | | 20 |
| 21 | | 185 | | | | 231 | | | | 77.5 B | | | 21 |
| 22 | | 184 | | | | 210 | | | | 76.5 B | | | 22 |
| 23 | | 187 | | | | 185 B | | | | 78.0 B | | | 23 |
| 24 | | 201 | | | | 180 B | | | | 75.5 B | | | 24 |
| 25 | | 206 | | | | 178 B | | | | 78.0 B | | | 25 |
| 26 | | 204 | | | | 176 B | | | | 78.0 B | | | 26 |
| 27 | | 260 | | | | 170 B | | | | 78.0 B | | | 27 |
| 28 | | 431 | | | | 167 B | | | | 78.5 B | | | 28 |
| 29 | | 408 | | | | 167 B | | | | 78.0 W | | | 29 |
| 30 | | 388 | | | | 136 B | | | | 78.5 B | | | 30 |
| 31 | | 371 | | | | | | | | 77.0 B | | | 31 |
| TOTAL | | 7 478 | | | | 8 741 | | | | 2 883.0 | | | TOTAL |
| MEAN | | 241 | | | | 291 | | | | 88.9 | | | MEAN |

TYPE OF GAUGE - (RECORDING
LOCATION - LAT 54 04 43 N
LONG 121 59 02 W
DRAINAGE AREA 18 000 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

FRASER RIVER AT HANSARD - STATION NO. 08KA004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 22 | 15:30 | 880 | N | 343 K | 12 | 18 | 28 | 48 | 84 | 91 | 98 | 100 | | | | BNW |
| MAY 27 | 12:26 | 828 | N | 238 K | 12 | 13 | 25 | 38 | 67 | 83 | 97 | 98 | 100 | | | BNW |
| MAY 28 | 08:48 | 785 | N | 351 K | 18 | 17 | 30 | 53 | 81 | 91 | 97 | 98 | 100 | | | BNW |
| MAY 31 | 08:30 | 1 330 | N | 595 K | 7 | 11 | 17 | 27 | 48 | 69 | 90 | 93 | 98 | 100 | | BNW |
| JUN 01 | 13:00 | 1 430 | N | 883 K | 2 | 4 | 12 | 23 | 38 | 61 | 73 | 89 | 98 | 100 | | BNW |
| JUN 02 | 13:15 | 1 360 | N | 849 K | 5 | 7 | 14 | 25 | 37 | 53 | 75 | 89 | 98 | 100 | | BNW |
| JUN 03 | 13:30 | 1 250 | N | 415 K | 9 | 12 | 18 | 28 | 38 | 48 | 73 | 89 | 97 | 100 | | BNW |
| JUN 04 | 15:30 | 1 100 | N | 338 K | 8 | 10 | 17 | 23 | 31 | 44 | 73 | 93 | 100 | | | BNW |
| JUN 05 | 11:30 | 980 | N | 259 K | 8 | 8 | 13 | 18 | 27 | 38 | 68 | 90 | 98 | 100 | | BNW |
| JUN 06 | 11:00 | 1 050 | N | 287 K | 3 | 6 | 11 | 19 | 34 | 53 | 85 | 96 | 98 | 100 | | BNW |
| JUN 13 | 15:30 | 1 110 | N | 258 K | 11 | 14 | 22 | 29 | 37 | 48 | 74 | 93 | 98 | 100 | | BNW |
| JUN 20 | 12:30 | 1 230 | N | 248 K | 11 | 15 | 28 | 39 | 52 | 67 | 85 | 96 | 98 | 100 | | BNW |
| JUN 22 | 20:00 | 1 080 | N | 262 K | 17 | 18 | 31 | 41 | 47 | 55 | 70 | 84 | 98 | 100 | | BNW |
| JUL 13 | 18:30 | 1 050 | N | 243 K | 12 | 18 | 26 | 35 | 46 | 60 | 78 | 93 | 98 | 100 | | BNW |
| JUL 14 | 16:30 | 1 150 | N | 276 K | 1 | 4 | 21 | 35 | 48 | 59 | 71 | 87 | 98 | 100 | | BNW |
| JUL 15 | 17:00 | 1 240 | N | 276 K | 3 | 8 | 14 | 33 | 33 | 41 | 61 | 83 | 98 | 100 | | BNW |
| JUL 18 | 10:00 | 1 280 | N | 347 K | 15 | 18 | 28 | 40 | 51 | 60 | 74 | 88 | 98 | 100 | | BNW |
| AUG 04 | 14:00 | 894 | N | 333 K | 8 | 14 | 29 | 57 | 72 | 80 | 92 | 100 | | | | BNW |

N - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

FRASER RIVER AT HANSARD - STATION NO. 08KA004

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | VERTICAL (m) | DEPTH OF SAMPLE (m) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|
| MAY 18 | 14:40 | 430 | 8.0 | 30.5 | 0.15 | 34 | DATA NOT AVAILABLE | |
| | | | | | 0.70 | 33 | DATA NOT AVAILABLE | |
| | | | | | 1.40 | 32 | DATA NOT AVAILABLE | |
| | | | | | 2.07 | 31 | DATA NOT AVAILABLE | |
| | | | | | 2.77 | 30 | DATA NOT AVAILABLE | |
| | | | | | 3.32 | 29 | DATA NOT AVAILABLE | |
| | | | | | 3.47 | | STREAMBED | |
| | | | | 85.5 | 0.15 | 27 | DATA NOT AVAILABLE | |
| | | | | | 0.70 | 26 | DATA NOT AVAILABLE | |
| | | | | | 1.43 | 25 | DATA NOT AVAILABLE | |
| | | | | | 2.13 | 24 | DATA NOT AVAILABLE | |
| | | | | | 2.87 | 23 | DATA NOT AVAILABLE | |
| | | | | | 3.41 | 22 | DATA NOT AVAILABLE | |
| | | | | | 3.57 | | STREAMBED | |
| | | | | 112.6 | 0.15 | 41 | DATA NOT AVAILABLE | |
| | | | | | 0.70 | 52 | DATA NOT AVAILABLE | |
| | | | | | 1.40 | 49 | DATA NOT AVAILABLE | |
| | | | | | 2.13 | 56 | DATA NOT AVAILABLE | |
| | | | | | 2.83 | 58 | DATA NOT AVAILABLE | |
| | | | | | 3.38 | 64 | DATA NOT AVAILABLE | |
| | | | | | 3.84 | | STREAMBED | |
| | | | | 140.2 | 0.15 | 41 | DATA NOT AVAILABLE | |
| | | | | | 0.48 | 45 | DATA NOT AVAILABLE | |
| | | | | | 0.86 | 47 | DATA NOT AVAILABLE | |
| | | | | | 1.31 | 48 | DATA NOT AVAILABLE | |
| | | | | | 1.82 | 53 | DATA NOT AVAILABLE | |
| | | | | | 2.28 | 58 | DATA NOT AVAILABLE | |
| | | | | | 2.41 | | STREAMBED | |
| | | | | 213.4 | 0.15 | 39 | DATA NOT AVAILABLE | |
| | | | | | 0.79 | 38 | DATA NOT AVAILABLE | |
| | | | | | 1.58 | 50 | DATA NOT AVAILABLE | |
| | | | | | 2.38 | 44 | DATA NOT AVAILABLE | |
| | | | | | 3.17 | 60 | DATA NOT AVAILABLE | |
| | | | | | 3.61 | 59 | DATA NOT AVAILABLE | |
| | | | | | 3.86 | | STREAMBED | |

BRITISH COLUMBIA

FRASER RIVER AT HANSARD - STATION NO. 08KA004

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN SITU WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | VERTICAL (m) | DEPTH OF SAMPLE (m) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|
| JUN 13 | 16:00 | 867 | 13.0 | 30.5 | 0.15 | 48 | DATA NOT AVAILABLE | |
| | | | | | 1.04 | 59 | DATA NOT AVAILABLE | |
| | | | | | 2.07 | 46 | DATA NOT AVAILABLE | |
| | | | | | 3.08 | 49 | DATA NOT AVAILABLE | |
| | | | | | 4.08 | 48 | DATA NOT AVAILABLE | |
| | | | | | 4.87 | 149 | DATA NOT AVAILABLE | |
| | | | | | 5.12 | | STREAMBED | |
| | | | | 65.5 | 0.15 | 95 | DATA NOT AVAILABLE | |
| | | | | | 1.01 | 70 | DATA NOT AVAILABLE | |
| | | | | | 2.01 | 63 | DATA NOT AVAILABLE | |
| | | | | | 3.05 | 84 | DATA NOT AVAILABLE | |
| | | | | | 3.99 | 130 | DATA NOT AVAILABLE | |
| | | | | | 4.85 | 199 | DATA NOT AVAILABLE | |
| | | | | | 5.00 | | STREAMBED | |
| | | | | 113.8 | 0.15 | 93 | DATA NOT AVAILABLE | |
| | | | | | 0.98 | 93 | DATA NOT AVAILABLE | |
| | | | | | 1.95 | 116 | DATA NOT AVAILABLE | |
| | | | | | 3.20 | 154 | DATA NOT AVAILABLE | |
| | | | | | 3.90 | 205 | DATA NOT AVAILABLE | |
| | | | | | 4.72 | 350 | DATA NOT AVAILABLE | |
| | | | | | 4.86 | | STREAMBED | |
| | | | | 140.3 | 0.15 | 73 | DATA NOT AVAILABLE | |
| | | | | | 0.79 | 113 | DATA NOT AVAILABLE | |
| | | | | | 1.95 | 116 | DATA NOT AVAILABLE | |
| | | | | | 2.35 | 159 | DATA NOT AVAILABLE | |
| | | | | | 3.11 | 181 | DATA NOT AVAILABLE | |
| | | | | | 3.75 | 310 | DATA NOT AVAILABLE | |
| | | | | | 3.80 | | STREAMBED | |
| | | | | 213.4 | 0.15 | 59 | DATA NOT AVAILABLE | |
| | | | | | 1.10 | 66 | DATA NOT AVAILABLE | |
| | | | | | 2.19 | 73 | DATA NOT AVAILABLE | |
| | | | | | 3.29 | 70 | DATA NOT AVAILABLE | |
| | | | | | 4.39 | 71 | DATA NOT AVAILABLE | |
| | | | | | 5.33 | 104 | DATA NOT AVAILABLE | |
| | | | | | 5.49 | | STREAMBED | |

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CON-CENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CON-CENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CON-CENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 180 | 5 | 501 | | 1 510 | 7 | 913 | | 2 080 | 38 | 7 010 | 1 |
| 2 | | 1 240 | 5 | 536 | | 1 500 | 9 | 1 240 | | 1 950 | 38 | 6 400 | 2 |
| 3 | | 1 300 | 5 | 561 | | 1 520 | 12 | 1 560 | | 2 030 | 27 | 5 480 | 3 |
| 4 | 4.5 | 1 300 | 13 S | 1 480 | | 1 530 | 15 | 1 980 | 4.0 | 2 010 | 35 S | 6 250 | 4 |
| 5 | | 1 510 | 20 | 2 810 | | 1 470 | 18 | 2 290 | | 1 880 | 34 | 5 530 | 5 |
| 6 | | 1 480 | 21 | 3 000 | 5.0 | 1 430 | 19 S | 2 380 | | 1 700 | 31 | 4 780 | 6 |
| 7 | 5.0 | 1 450 | 77 S | 5 850 | | 1 440 | 17 | 2 120 | | 1 770 | 28 | 4 280 | 7 |
| 8 | | 2 430 | 128 | 26 000 | | 1 330 | 13 | 1 490 | | 1 850 | 25 | 3 990 | 8 |
| 9 | | 2 050 | 100 | 16 300 | | 1 310 | 9 | 1 020 | | 1 930 | 23 | 3 840 | 9 |
| 10 | | 2 600 | 168 | 38 000 | | 1 340 | 7 | 810 | | 2 310 | 23 | 4 590 | 10 |
| 11 | 4.5 | 2 840 | 125 S | 31 800 | | 1 280 | 8 | 885 | 5.0 | 2 340 | 28 S | 5 660 | 11 |
| 12 | 4.5 | 2 350 | 52 S | 10 600 | | 1 570 | 25 | 3 510 | 4.5 | 2 200 | 36 S | 6 840 | 12 |
| 13 | | 2 070 | 31 | 5 540 | | 2 080 | 31 | 5 520 | | 2 180 | 35 | 6 500 | 13 |
| 14 | 3.4 | 1 820 | 24 S | 3 980 | | 1 990 | 25 | 4 300 | | 2 230 | 25 | 4 820 | 14 |
| 15 | | 1 850 | 20 | 3 200 | | 1 820 | 21 | 3 300 | 6.0 | 2 190 | 21 S | 3 970 | 15 |
| 16 | | 1 700 | 16 | 2 350 | | 1 620 | 19 | 2 880 | | 2 050 | 20 | 3 540 | 16 |
| 17 | | 1 590 | 15 | 2 060 | 4.5 | 1 750 | 17 S | 2 570 | | 2 130 | 21 | 3 850 | 17 |
| 18 | | 1 500 | 13 | 1 660 | | 2 170 | 16 | 3 000 | 6.0 | 2 140 | 24 S | 4 440 | 18 |
| 19 | | 1 450 | 10 | 1 250 | | 2 000 | 14 | 2 420 | | 2 110 | 25 | 4 560 | 19 |
| 20 | | 1 480 | 9 | 1 180 | | 1 980 | 12 | 2 030 | | 2 050 | 26 | 4 610 | 20 |
| 21 | | 1 520 | 8 | 1 050 | | 1 880 | 11 | 1 800 | | 2 080 | 27 | 4 810 | 21 |
| 22 | 4.5 | 1 510 | 6 S | 825 | | 1 980 | 11 | 1 880 | | 2 000 | 27 | 4 670 | 22 |
| 23 | | 1 520 | 5 | 657 | 5.2 | 2 100 | 14 S | 2 540 | | 1 900 | 28 | 4 600 | 23 |
| 24 | | 1 430 | 4 | 484 | | 2 300 | 24 | 4 770 | | 1 850 | 28 | 4 510 | 24 |
| 25 | 4.5 | 1 420 | 2 S | 245 | 5.0 | 2 280 | 34 S | 6 840 | 5.5 | 1 880 | 30 S | 4 870 | 25 |
| 26 | | 1 380 | 1 | 119 | | 2 210 | 38 | 7 280 | | 1 850 | 35 | 5 590 | 26 |
| 27 | | 1 490 | 2 | 257 | | 2 190 | 40 | 7 570 | | 1 850 | 38 | 5 270 | 27 |
| 28 | 4.0 | 1 400 | 3 S | 363 | | 2 170 | 40 | 7 500 | | 1 840 | 43 | 6 840 | 28 |
| 29 | | 1 430 | 4 | 494 | | | | | 6.0 | 1 750 | 45 S | 6 800 | 29 |
| 30 | | 1 510 | 4 | 522 | | | | | | 2 070 | 43 | 7 690 | 30 |
| 31 | | 1 480 | 5 | 638 | | | | | | 1 900 | 41 | 6 730 | 31 |
| TOTAL | | 51 740 | | 175 853 | | 50 120 | | 68 518 | | 62 050 | | 165 500 | TOTAL |
| MEAN | | 1 670 | | 5 670 | | 1 790 | | 2 450 | | 2 000 | | 5 340 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CON-CENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CON-CENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CON-CENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 880 | 39 | 6 230 | 10.0 | 3 700 | 180 S | 57 500 | 14.0 | 7 740 | 227 S | 152 000 | 1 |
| 2 | | 1 970 | 38 | 6 470 | 10.5 | 3 730 | 143 S | 46 100 | 13.0 | 8 690 | 264 S | 199 000 | 2 |
| 3 | 6.0 | 1 940 | 36 S | 6 030 | 10.0 | 3 750 | 113 S | 36 600 | 14.0 | 8 420 | 330 S | 240 000 | 3 |
| 4 | | 1 950 | 38 | 6 400 | 10.0 | 3 680 | 100 S | 31 800 | 14.0 | 8 490 | 300 S | 220 000 | 4 |
| 5 | | 1 940 | 40 | 6 700 | 11.0 | 3 730 | 104 S | 33 500 | 14.0 | 8 330 | 285 S | 205 000 | 5 |
| 6 | | 1 950 | 42 | 7 080 | 10.5 | 3 760 | 96 S | 31 400 | 14.5 | 8 000 | 235 S | 162 000 | 6 |
| 7 | | 1 910 | 43 | 7 100 | | 3 670 | 92 | 30 800 | 13.0 | 7 710 | 195 S | 130 000 | 7 |
| 8 | | 2 020 | 42 | 7 330 | 12.0 | 3 810 | 97 S | 32 100 | 15.0 | 7 420 | 171 S | 110 000 | 8 |
| 9 | | 2 030 | 43 | 7 540 | 11.0 | 3 900 | 97 S | 32 700 | | 7 280 | 143 | 90 100 | 9 |
| 10 | | 2 200 | 47 | 8 930 | 11.0 | 3 960 | 111 S | 38 000 | 13.0 | 7 460 | 134 S | 86 400 | 10 |
| 11 | | 2 380 | 165 | 34 300 | | 4 020 | 108 | 37 500 | 14.0 | 7 880 | 121 S | 82 800 | 11 |
| 12 | 6.0 | 2 320 | 255 S | 51 100 | 13.0 | 4 040 | 81 S | 28 300 | | 7 280 | 76 | 47 800 | 12 |
| 13 | | 2 190 | 160 | 30 300 | 13.0 | 3 970 | 76 S | 26 100 | 15.0 | 7 280 | 91 S | 57 200 | 13 |
| 14 | | 2 120 | 83 | 15 100 | 12.0 | 3 820 | 78 S | 25 800 | 15.0 | 7 330 | 105 S | 66 500 | 14 |
| 15 | | 2 010 | 63 | 10 900 | 12.0 | 3 690 | 78 S | 25 500 | | 7 120 | 98 | 60 300 | 15 |
| 16 | | 2 000 | 51 | 8 810 | | 3 630 | 80 | 25 100 | 17.0 | 6 880 | 88 S | 52 300 | 16 |
| 17 | 6.0 | 2 010 | 48 S | 8 340 | 11.0 | 3 650 | 84 S | 27 900 | 14.0 | 6 700 | 62 S | 35 900 | 17 |
| 18 | | 2 000 | 50 | 8 640 | 12.0 | 3 810 | 74 S | 26 000 | 13.5 | 6 780 | 59 S | 34 600 | 18 |
| 19 | | 2 140 | 60 | 11 100 | | 4 010 | 91 | 31 500 | 14.0 | 6 720 | 62 S | 36 000 | 19 |
| 20 | | 2 270 | 73 | 14 300 | 13.0 | 4 220 | 126 S | 46 000 | 14.5 | 6 660 | 74 S | 42 600 | 20 |
| 21 | | 2 380 | 88 | 18 200 | 15.0 | 4 520 | 158 S | 62 100 | 15.0 | 6 810 | 100 S | 58 800 | 21 |
| 22 | | 2 570 | 107 | 23 800 | 13.0 | 4 750 | 142 S | 58 300 | 14.0 | 6 820 | 100 S | 58 900 | 22 |
| 23 | | 2 850 | 122 | 30 000 | 15.0 | 4 900 | 130 S | 55 300 | 15.0 | 7 270 | 145 S | 91 700 | 23 |
| 24 | | 2 950 | 156 | 39 800 | 14.5 | 5 280 | 175 S | 79 800 | | 7 220 | 140 | 87 300 | 24 |
| 25 | | 3 220 | 185 | 51 700 | | 5 720 | 223 | 110 000 | | 6 900 | 121 | 72 100 | 25 |
| 26 | 6.0 | 3 380 | 220 S | 64 200 | 14.0 | 5 940 | 233 S | 120 000 | 15.0 | 6 810 | 86 S | 50 600 | 26 |
| 27 | | 3 400 | 256 | 75 200 | 16.0 | 6 080 | 201 S | 106 000 | 16.0 | 6 420 | 75 S | 42 300 | 27 |
| 28 | | 3 510 | 276 | 83 700 | | 6 280 | 182 | 100 000 | 15.0 | 6 420 | 82 S | 45 500 | 28 |
| 29 | | 3 620 | 248 | 77 600 | 15.0 | 6 650 | 215 S | 124 000 | 15.0 | 6 280 | 88 S | 48 300 | 29 |
| 30 | | 3 710 | 214 | 68 600 | 14.5 | 7 170 | 268 S | 166 000 | 15.5 | 6 180 | 72 S | 38 400 | 30 |
| 31 | | | | | | 7 500 | 223 S | 145 000 | | | | | 31 |
| TOTAL | | 72 610 | | 757 000 | | 142 670 | | 1 660 000 | | 216 420 | | 2 715 500 | TOTAL |
| MEAN | | 2 420 | | 25 200 | | 4 600 | | 53 500 | | 7 210 | | 90 500 | MEAN |

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 5 830 | 56 S | 28 700 | 15.0 | 5 490 | 50 S | 23 900 | | 3 720 | 31 | 7 200 | 1 |
| 2 | | 5 900 | 56 | 28 700 | 15.0 | 5 270 | 38 S | 16 900 | 16.5 | 3 830 | 33 S | 8 070 | 2 |
| 3 | 15.0 | 6 040 | 72 S | 37 600 | 15.5 | 5 050 | 51 S | 22 300 | | 3 840 | 31 S | 7 870 | 3 |
| 4 | 15.5 | 6 050 | 74 S | 38 700 | 15.0 | 4 910 | 53 S | 23 500 | 17.0 | 3 900 | 30 S | 7 820 | 4 |
| 5 | 15.0 | 5 980 | 72 S | 37 200 | 15.5 | 4 650 | 48 S | 20 100 | | 3 810 | 28 | 7 260 | 5 |
| 6 | 15.5 | 5 680 | 71 S | 35 800 | | 4 860 | 44 | 18 400 | 18.0 | 3 020 | 27 S | 7 050 | 6 |
| 7 | 16.0 | 5 780 | 83 S | 31 400 | | 4 800 | 45 | 18 700 | | 3 230 | 24 | 6 700 | 7 |
| 8 | 16.0 | 5 610 | 84 S | 31 000 | 15.0 | 4 820 | 44 S | 17 800 | 19.0 | 3 390 | 30 S | 8 980 | 8 |
| 9 | 16.0 | 5 480 | 84 S | 37 300 | 15.0 | 4 660 | 43 S | 18 800 | | 3 180 | 28 | 7 140 | 9 |
| 10 | 17.0 | 5 290 | 82 S | 33 800 | 15.0 | 4 600 | 43 S | 18 300 | 18.0 | 3 100 | 48 S | 13 100 | 10 |
| 11 | | 5 310 | 80 | 27 100 | 12.0 | 4 300 | 37 S | 13 700 | | 3 180 | 52 | 14 200 | 11 |
| 12 | 15.0 | 5 780 | 154 S | 30 200 | 13.0 | 4 270 | 31 S | 7 750 | | 2 860 | 42 | 10 600 | 12 |
| 13 | 15.0 | 7 180 | 86 S | 53 400 | 12.0 | 4 240 | 12 S | 4 780 | | 2 820 | 34 | 8 280 | 13 |
| 14 | 15.0 | 7 660 | 100 S | 65 500 | | 4 220 | 20 | 7 380 | | 2 800 | 36 | 8 280 | 14 |
| 15 | 14.0 | 7 710 | 135 S | 83 300 | | 4 210 | 28 | 10 500 | | 2 900 | 33 | 4 970 | 15 |
| 16 | 14.5 | 7 690 | 135 S | 82 000 | 17.0 | 4 140 | 40 S | 14 300 | | 3 410 | 33 | 4 780 | 16 |
| 17 | | 8 010 | 138 | 85 500 | 16.4 | 4 080 | 44 S | 16 000 | | 3 380 | 26 | 8 370 | 17 |
| 18 | | 7 820 | 133 | 88 800 | | 3 980 | 42 S | 14 300 | | 3 380 | 36 | 8 370 | 18 |
| 19 | | 7 580 | 128 | 82 800 | | 3 880 | 35 | 11 800 | | 3 380 | 35 | 8 140 | 19 |
| 20 | | 7 370 | 114 | 71 800 | 15.0 | 3 810 | 28 S | 9 550 | | 3 420 | 34 | 8 030 | 20 |
| 21 | | 7 010 | 103 | 82 400 | | 3 890 | 33 | 7 330 | | 3 480 | 33 | 4 710 | 21 |
| 22 | | 6 880 | 83 | 83 800 | 17.0 | 3 880 | 30 S | 8 130 | | 3 380 | 33 | 4 780 | 22 |
| 23 | | 6 840 | 84 | 47 100 | | 3 870 | 16 | 4 370 | | 3 230 | 37 | 8 440 | 23 |
| 24 | | 6 380 | 73 | 40 300 | 17.0 | 3 150 | 14 S | 3 810 | | 3 260 | 37 | 8 270 | 24 |
| 25 | 15.0 | 6 270 | 86 S | 36 200 | | 3 000 | 17 | 4 410 | | 3 180 | 36 | 4 820 | 25 |
| 26 | 15.0 | 6 210 | 93 S | 33 300 | 17.0 | 3 900 | 36 S | 8 020 | | 3 110 | 35 | 4 760 | 26 |
| 27 | | 6 040 | 87 | 38 000 | | 3 840 | 33 | 8 100 | | 3 140 | 34 | 4 440 | 27 |
| 28 | 15.0 | 5 940 | 83 S | 42 100 | | 3 780 | 31 | 7 370 | | 3 180 | 32 | 4 330 | 28 |
| 29 | 15.0 | 5 910 | 86 S | 43 900 | | 3 780 | 30 | 7 210 | | 3 080 | 34 | 4 320 | 29 |
| 30 | 15.5 | 5 820 | 81 S | 40 700 | | 3 780 | 29 | 8 020 | | 3 040 | 33 | 3 930 | 30 |
| 31 | 15.0 | 5 850 | 74 S | 38 100 | 18.0 | 3 880 | 31 S | 7 200 | | | | | 31 |
| TOTAL | | 193 530 | | 1 848 300 | | 133 240 | | 378 720 | | 76 580 | | 194 780 | TOTAL |
| MEAN | | 6 440 | | 59 600 | | 3 980 | | 13 200 | | 3 630 | | 6 490 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 100 | 20 | 3 630 | | 2 580 | 7 | 1 840 | | 2 170 | 18 | 3 370 | 1 |
| 2 | 6.0 | 2 070 | 19 S | 3 400 | | 2 460 | 6 | 1 610 | | 2 130 | 17 | 3 130 | 2 |
| 3 | | 1 950 | 17 | 2 660 | | 2 840 | 10 | 2 840 | 5.0 | 2 080 | 15 S | 3 460 | 3 |
| 4 | | 1 840 | 15 S | 2 510 | | 3 020 | 13 | 4 080 | | 1 880 | 15 | 2 410 | 4 |
| 5 | | 1 860 | 13 | 2 060 | 6.0 | 3 870 | 13 S | 4 810 | | 1 780 | 14 | 2 120 | 5 |
| 6 | | 1 780 | 11 | 1 880 | | 3 480 | 13 | 3 880 | | 1 740 | 14 | 2 100 | 6 |
| 7 | 6.0 | 1 740 | 9 S | 1 360 | | 3 330 | 13 | 3 730 | | 1 830 | 15 | 2 180 | 7 |
| 8 | | 1 810 | 8 | 1 250 | | 3 220 | 13 | 3 630 | | 1 830 | 15 | 1 880 | 8 |
| 9 | | 1 780 | 8 | 1 380 | | 3 060 | 12 | 3 190 | 5.0 | 1 840 | 15 S | 2 000 | 9 |
| 10 | | 1 840 | 13 | 1 810 | | 2 770 | 12 | 2 870 | | 1 700 | 16 | 2 350 | 10 |
| 11 | 8.0 | 1 710 | 19 S | 2 810 | | 2 620 | 12 | 2 820 | | 1 430 | 15 | 1 850 | 11 |
| 12 | | 1 730 | 24 | 2 880 | 7.0 | 2 840 | 13 S | 3 080 | | 1 330 | 15 | 1 720 | 12 |
| 13 | | 1 710 | 30 | 2 840 | | 2 730 | 12 | 2 830 | | 1 310 | 15 | 1 700 | 13 |
| 14 | | 1 840 | 27 | 2 830 | | 2 700 | 12 | 2 800 | | 1 480 | 14 | 1 780 | 14 |
| 15 | 10.0 | 1 880 | 36 S | 3 580 | | 2 680 | 13 | 3 300 | | 1 480 | 14 | 1 770 | 15 |
| 16 | | 1 480 | 25 | 3 300 | 7.0 | 4 040 | 13 S | 4 540 | | 1 530 | 16 S | 1 850 | 16 |
| 17 | | 1 520 | 24 | 3 180 | | 3 870 | 12 | 4 130 | | 1 350 S | 16 | 1 630 | 17 |
| 18 | | 1 480 | 23 | 2 960 | | 3 690 | 12 | 3 730 | | 1 300 S | 14 | 1 570 | 18 |
| 19 | | 1 500 | 22 | 2 850 | | 3 300 | 11 | 3 100 | | 1 280 S | 13 | 1 420 | 19 |
| 20 | | 1 530 | 21 | 2 780 | 7.0 | 3 070 | 10 S | 3 080 | | 1 240 S | 13 | 1 380 | 20 |
| 21 | | 1 410 | 20 | 2 480 | | 3 020 | 10 | 3 010 | | 1 230 S | 13 | 1 380 | 21 |
| 22 | 10.0 | 1 850 | 18 S | 3 570 | | 3 040 | 11 | 3 700 | | 1 320 S | 13 | 1 380 | 22 |
| 23 | | 1 730 | 17 | 3 410 | | 3 700 | 12 | 3 600 | | 1 330 S | 12 | 1 280 | 23 |
| 24 | | 1 680 | 16 | 3 280 | | 3 440 | 14 | 3 850 | | 1 300 S | 12 | 1 280 | 24 |
| 25 | | 1 580 | 16 | 3 180 | | 3 030 | 15 | 3 410 | | 1 300 S | 12 | 1 310 | 25 |
| 26 | | 1 570 | 16 | 3 020 | | 3 010 | 15 | 3 470 | | 1 300 S | 12 | 1 280 | 26 |
| 27 | | 1 520 | 15 | 3 040 | | 3 000 | 16 | 3 880 | | 1 330 S | 11 | 1 300 | 27 |
| 28 | | 1 540 | 11 | 1 780 | | 3 370 | 15 | 3 880 | | 1 380 S | 11 | 1 310 | 28 |
| 29 | 8.0 | 1 780 | 10 S | 1 880 | 7.0 | 3 190 | 30 S | 3 780 | | 1 480 S | 10 | 1 280 | 29 |
| 30 | | 1 940 | 8 S | 1 810 | | 3 300 | 19 | 3 610 | | 1 600 S | 10 S | 1 380 | 30 |
| 31 | | 2 010 | 8 | 1 330 | | | | | | 1 780 | 10 | 1 610 | 31 |
| TOTAL | | 54 540 | | 78 400 | | 88 370 | | 97 420 | | 48 810 | | 95 540 | TOTAL |
| MEAN | | 1 760 | | 2 630 | | 3 980 | | 3 260 | | 1 510 | | 1 780 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 79 | |
| MAXIMUM DAILY | 350 | 08 JUN 83 |
| MINIMUM DAILY | 1 | 08 JAN 83 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 33 300 | |
| MAXIMUM DAILY | 350 000 | 08 JUN 83 |
| MINIMUM DAILY | 110 | 08 JAN 83 |

TOTAL SUSPENDED SEDIMENT LOAD 6 093 451 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 30 N
LONG 122 18 00 W

DRAINAGE AREA 220 000 $km^2$
REGULATED FLOW SINCE 1968

E - ICE CONDITIONS

R - SAMPLE(S) COLLECTED THIS DAY

## FRASER RIVER AT MISSION - STATION NO. 08MH024

### DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR 12 | 12:45 | 2 320 H | 5.0 | 261 K | 34 | 62 | 80 | 92 | 97 | 100 | | | | | | BSW |
| APR 28 | 08:45 | 3 380 H | 5.0 | 216 K | 30 | 35 | 65 | 72 | 78 | 88 | 100 | | | | | BSW |
| MAY 01 | 17:00 | 3 700 H | 10.0 | 178 K | 17 | 23 | 34 | 48 | 66 | 73 | 93 | 98 | 100 | | | BSW |
| MAY 06 | 12:12 | 3 730 H | 11.0 | 108 K | 9 | 18 | 28 | 43 | 60 | 61 | 79 | 91 | 94 | 100 | | BSW |
| MAY 10 | 13:15 | 3 980 H | 11.0 | 117 K | 21 | 38 | 33 | 61 | 51 | 66 | 67 | 98 | 100 | | | BSW |
| MAY 20 | 20:10 | 6 220 H | 13.0 | 183 K | 14 | 38 | 22 | 41 | 55 | 61 | 97 | 100 | | | | BSW |
| MAY 28 | 18:20 | 6 870 H | 15.0 | 261 R | 4 | 8 | 17 | 26 | 34 | 43 | 88 | 88 | 100 | | | BSW |
| MAY 29 | 11:30 | 6 980 | 14.5 | 277 R | 13 | 17 | 28 | 35 | 51 | 66 | 85 | 86 | 100 | | | BSW |
| MAY 30 | 12:15 | 6 950 | 14.5 | 347 K | 9 | 13 | 19 | 27 | 37 | 63 | 76 | 82 | 90 | 100 | | BSW |
| MAY 30 | 19:00 | 7 540 H | 15.0 | 340 K | 3 | 9 | 12 | 22 | 38 | 48 | 73 | 82 | 98 | 100 | | BSW |
| MAY 31 | 20:40 | 7 870 H | | 257 K | 1 | 7 | 17 | 28 | 34 | 44 | 83 | 80 | 85 | 100 | | BSW |
| JUN 01 | 20:30 | 8 300 H | 14.0 | 332 K | 6 | 11 | 18 | 26 | 35 | 47 | 72 | 88 | 100 | | | BSW |
| JUN 02 | 13:50 | 8 780 H | 13.0 | 404 K | 4 | 7 | 14 | 23 | 30 | 43 | 64 | 82 | 93 | 100 | | BSW |
| JUN 02 | 18:45 | 8 780 H | 14.0 | 382 K | 6 | 10 | 16 | 23 | 32 | 46 | 74 | 82 | 88 | 100 | | BSW |
| JUN 03 | 07:45 | 9 210 H | 14.0 | 472 K | 3 | 8 | 13 | 21 | 30 | 41 | 59 | 78 | 84 | 100 | | BSW |
| JUN 04 | 08:30 | 9 320 H | 14.0 | 434 K | 5 | 10 | 16 | 27 | 36 | 52 | 70 | 84 | 84 | 100 | | BSW |
| JUN 05 | 19:40 | 9 110 H | 14.0 | 468 K | 11 | 14 | 21 | 26 | 34 | 42 | 64 | 76 | 86 | 100 | | BSW |
| JUN 06 | 20:10 | 8 880 H | 14.5 | 288 K | 20 | 24 | 30 | 38 | 40 | 50 | 72 | 85 | 88 | 100 | | BSW |
| JUN 07 | 10:33 | 7 580 | 13.0 | 211 R | 11 | 17 | 27 | 36 | 40 | 60 | 76 | 82 | 90 | 100 | | BSW |
| JUN 07 | 11:18 | 7 590 | 13.0 | 337 K | 7 | 11 | 18 | 32 | 28 | 34 | 46 | 82 | 90 | 100 | | BSW |
| JUN 07 | 20:00 | 8 280 H | 15.0 | 268 K | 17 | 19 | 28 | 34 | 41 | 49 | 68 | 84 | 95 | 100 | | BSW |
| JUN 08 | 20:45 | 7 880 H | 15.0 | 270 K | 18 | 18 | 25 | 31 | 36 | 43 | 63 | 78 | 97 | 100 | | BSW |
| JUN 10 | 08:10 | 7 830 H | 13.0 | 188 K | 7 | 12 | 17 | 33 | 28 | 37 | 48 | 82 | 96 | 100 | | BSW |
| JUN 11 | 20:20 | 8 050 H | 14.0 | 187 K | 10 | 18 | 25 | 38 | 44 | 52 | 63 | 83 | 97 | 100 | | BSW |
| JUN 13 | 20:20 | 7 880 H | 15.0 | 171 K | 7 | 12 | 21 | 39 | 37 | 46 | 60 | 87 | 98 | 100 | | BSW |
| JUN 23 | 20:35 | 7 640 H | 15.0 | 202 K | 21 | 35 | 26 | 41 | 52 | 63 | 72 | 81 | 87 | 100 | | BSW |
| JUL 14 | 12:32 | 8 100 H | 14.0 | 203 K | 6 | 10 | 16 | 25 | 32 | 38 | 47 | 78 | 86 | 100 | | BSW |
| JUL 15 | 10:14 | 7 430 | 14.0 | 228 K | 5 | 9 | 15 | 20 | 26 | 33 | 41 | 54 | 83 | 100 | | BSW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL    R - SAMPLES COLLECTED IN SEVERAL VERTICALS

## FRASER RIVER AT MISSION - STATION NO. 08MH024

### POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | VERTICAL (m) | DEPTH OF SAMPLE (m) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 07 | 12:50 | 7 590 | 13.0 | 91.4 | 0.15 | 118 | 15 | 25 | 47 | 62 | 77 | 90 | 95 | 99 | 100 | | | BSW |
| | | | | | 2.40 | 173 | 20 | 32 | 38 | 51 | 71 | 82 | 90 | 95 | 98 | 100 | | BSW |
| | | | | | 4.80 | 210 | 21 | 28 | 37 | 46 | 55 | 71 | 83 | 93 | 98 | 100 | | BSW |
| | | | | | 7.20 | 268 | 13 | 20 | 26 | 37 | 46 | 68 | 83 | 93 | 99 | 100 | | BSW |
| | | | | | 9.50 | 283 | 15 | 20 | 25 | 32 | 38 | 48 | 62 | 95 | 98 | 100 | | BSW |
| | | | | | 10.70 | 417 | 6 | 7 | 14 | 21 | 28 | 38 | 85 | 87 | 100 | | | BSW |
| | | | | | 11.80 | 2 260 | 1 | 2 | 3 | 5 | 6 | 7 | 13 | 43 | 90 | 100 | | BSW |
| | | | | | 11.90 | | STREAMBED | | | | | | | | | | | |
| | | | | 182.9 | 0.15 | 180 | 38 | 44 | 48 | 57 | 64 | 81 | 92 | 97 | 99 | 100 | | BSW |
| | | | | | 2.90 | 159 | 8 | 14 | 28 | 36 | 61 | 66 | 80 | 91 | 98 | 100 | | BSW |
| | | | | | 4.90 | 214 | 13 | 17 | 21 | 28 | 37 | 60 | 88 | 82 | 92 | 100 | | BSW |
| | | | | | 7.40 | 867 | 4 | 8 | 9 | 12 | 15 | 20 | 25 | 38 | 71 | 100 | | BSW |
| | | | | | 9.90 | 373 | 5 | 10 | 14 | 24 | 28 | 35 | 63 | 66 | 88 | 100 | | BSW |
| | | | | | 11.10 | 488 | 5 | 6 | 11 | 17 | 30 | 38 | 61 | 67 | 100 | | | BSW |
| | | | | | 12.20 | 2 870 | 1 | 1 | 2 | 3 | 3 | 5 | 13 | 47 | 88 | 100 | | BSW |
| | | | | | 12.40 | | STREAMBED | | | | | | | | | | | |
| | | | | 274.3 | 0.15 | 143 | 50 | 56 | 58 | 68 | 78 | 89 | 97 | 99 | 100 | | | BSW |
| | | | | | 2.40 | 186 | 10 | 12 | 27 | 63 | 64 | 87 | 90 | 91 | 96 | 100 | | BSW |
| | | | | | 4.90 | 204 | 11 | 17 | 25 | 34 | 43 | 53 | 87 | 78 | 93 | 100 | | BSW |
| | | | | | 7.30 | 283 | 9 | 15 | 23 | 31 | 29 | 48 | 83 | 87 | 98 | 100 | | BSW |
| | | | | | 9.80 | 259 | 4 | 8 | 13 | 20 | 25 | 33 | 48 | 84 | 92 | 100 | | BSW |
| | | | | | 11.00 | 808 | 4 | 8 | 11 | 16 | 19 | 24 | 38 | 77 | 97 | 100 | | BSW |
| | | | | | 12.10 | 1 780 | 1 | 2 | 4 | 6 | 7 | 8 | 14 | 28 | 68 | 100 | | BSW |
| | | | | | 12.20 | | STREAMBED | | | | | | | | | | | |
| | | | | 365.8 | 0.15 | 123 | 20 | 21 | 44 | 55 | 74 | 88 | 91 | 99 | 100 | | | BSW |
| | | | | | 2.50 | 163 | 12 | 16 | 29 | 64 | 80 | 75 | 88 | 97 | 100 | | | BSW |
| | | | | | 4.90 | 143 | 7 | 15 | 29 | 48 | 66 | 77 | 98 | 100 | | | | BSW |
| | | | | | 7.40 | 178 | 8 | 15 | 24 | 37 | 47 | 89 | 72 | 88 | 98 | 100 | | BSW |
| | | | | | 9.90 | 230 | 18 | 18 | 32 | 32 | 47 | 57 | 87 | 78 | 96 | 100 | | BSW |
| | | | | | 11.10 | 218 | 13 | 15 | 30 | 26 | 23 | 42 | 84 | 88 | 98 | 100 | | BSW |
| | | | | | 12.20 | 880 | 3 | 4 | 7 | 9 | 13 | 26 | 28 | 64 | 91 | 100 | | BSW |
| | | | | | 12.40 | | STREAMBED | | | | | | | | | | | |
| | | | | 457.2 | 0.15 | 115 | 13 | 24 | 36 | 58 | 71 | 87 | 98 | 100 | | | | BSW |
| | | | | | 2.40 | 120 | 18 | 27 | 34 | 68 | 72 | 87 | 97 | 100 | | | | BSW |
| | | | | | 4.80 | 120 | 20 | 28 | 43 | 61 | 72 | 83 | 98 | 100 | | | | BSW |
| | | | | | 7.10 | 161 | 25 | 41 | 48 | 64 | 78 | 87 | 98 | 100 | | | | BSW |
| | | | | | 9.50 | 111 | 9 | 18 | 25 | 67 | 83 | 78 | 89 | 93 | 100 | | | BSW |
| | | | | | 10.70 | 111 | 18 | 18 | 23 | 40 | 84 | 80 | 82 | 98 | 100 | | | BSW |
| | | | | | 11.70 | 161 | 16 | 23 | 35 | 45 | 56 | 58 | 84 | 95 | 100 | | | BSW |
| | | | | | 11.80 | | STREAMBED | | | | | | | | | | | |

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

SED LOAD PARTICLE-SIZE ANALYSIS FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; P - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | NUMBER OF SAMPLING POINTS | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | | METHOD OF ANALYSIS | TYPE OF SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | 4.000 | 8.000 | 16.000 | 32.000 | 64.000 | |
| MAY 30 | 12:02 | 8 050 | 4 | | | 1 | 9 | 61 | 83 | 100 | | | | | | | S | ARNHEM |
| JUN 07 | 10:20 | 7 550 | 5 | | | | 3 | 33 | 63 | 95 | | | | | | | S | ARNHEM |
| JUN 22 | 14:12 | 8 030 | 4 | | | | 1 | 36 | 60 | 95 | 99 | 91 | 93 | 100 | | | S | ARNHEM |
| JUL 18 | 10:55 | 7 430 | 4 | | | | 1 | 36 | 60 | 95 | 99 | 100 | | | | | S | ARNHEM |
| AUG 17 | 13:04 | 4 260 | 4 | | | | 1 | 32 | 63 | 95 | 99 | 100 | | | | | S | ARNHEM |
| | | | | | | | | | | | | | | | | | S | ARNHEM |

# BRITISH COLUMBIA

## FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 882 | 16 | 1 040 | | 1 000 | 18 | 1 640 | | 1 280 | 40 | 4 350 | 1 |
| 2 | | 848 | 14 | 1 020 | | 1 020 | 18 | 1 580 | | 1 280 | 43 | 4 800 | 2 |
| 3 | | 862 | 14 | 1 100 | | 1 000 | 17 | 1 470 | | 1 280 | 47 | 5 130 | 3 |
| 4 | 3.0 | 1 010 | 14 E | 1 220 | | 990 | 16 | 1 380 | 4.0 | 1 240 | 52 E | 5 570 | 4 |
| 5 | | 1 060 | 12 | 1 000 | | 986 | 12 | 1 070 | | 1 210 | 53 | 5 540 | 5 |
| 6 | | 1 040 | 11 | 988 | | 918 | 12 | 950 | | 1 180 | 54 | 5 550 | 6 |
| 7 | 3.5 | 1 100 | 40 E | 3 900 | | 928 | 11 | 881 | | 1 170 | 52 | 5 280 | 7 |
| 8 | | 1 630 | 122 | 17 200 | 2.0 | 913 | 9 E | 710 | | 1 180 | 52 | 5 210 | 8 |
| 9 | | 1 320 | 87 | 11 100 | | 901 | 9 | 701 | | 1 220 | 72 | 8 210 | 9 |
| 10 | | 1 870 | 167 | 27 000 | | 908 | 10 | 783 | | 1 460 | 84 | 10 600 | 10 |
| 11 | | 1 740 | 122 | 18 300 | | 984 | 10 | 836 | | 1 430 | 71 | 8 710 | 11 |
| 12 | | 1 450 | 60 | 6 250 | | 1 120 | 11 | 1 070 | | 1 350 | 56 | 6 420 | 12 |
| 13 | | 1 360 | 26 | 3 020 | | 1 160 | 14 | 1 440 | | 1 340 | 43 | 4 960 | 13 |
| 14 | 3.0 | 1 260 | 19 E | 2 100 | 3.0 | 1 180 | 17 E | 1 700 | | 1 350 | 34 | 3 970 | 14 |
| 15 | | 1 220 | 16 | 1 700 | | 1 120 | 18 | 1 740 | 5.0 | 1 380 | 32 E | 3 820 | 15 |
| 16 | | 1 180 | 14 | 1 400 | | 1 080 | 20 | 1 880 | | 1 410 | 41 | 5 000 | 16 |
| 17 | | 1 130 | 12 | 1 180 | | 1 120 | 18 | 1 830 | | 1 450 | 55 | 6 880 | 17 |
| 18 | | 1 080 | 12 | 1 130 | | 1 240 | 20 | 2 140 | 5.5 | 1 470 | 76 E | 9 620 | 18 |
| 19 | | 1 070 | 10 | 926 | | 1 180 | 21 | 2 180 | | 1 460 | 80 | 10 200 | 19 |
| 20 | | 1 050 | 9 | 848 | | 1 180 | 23 | 2 340 | | 1 460 | 80 | 10 300 | 20 |
| 21 | | 1 110 | 9 | 862 | | 1 170 | 28 | 2 830 | | 1 480 | 78 | 9 970 | 21 |
| 22 | 3.0 | 1 100 | 10 E | 950 | | 1 180 | 28 | 2 880 | | 1 470 | 73 | 9 270 | 22 |
| 23 | | 1 070 | 10 | 924 | | 1 220 | 30 | 3 160 | | 1 460 | 68 | 8 530 | 23 |
| 24 | | 1 040 | 11 | 988 | | 1 300 | 33 | 3 560 | | 1 430 | 63 | 7 900 | 24 |
| 25 | 0.4 | 983 | 12 E | 1 020 | 4.0 | 1 310 | 33 E | 3 740 | 6.0 | 1 400 | 58 E | 6 770 | 25 |
| 26 | | 918 | 12 | 948 | | 1 280 | 35 | 3 870 | | 1 380 | 45 | 5 350 | 26 |
| 27 | | 958 | 18 | 1 340 | | 1 280 | 34 | 3 820 | | 1 380 | 36 | 4 280 | 27 |
| 28 | 3.0 | 988 | 18 E | 1 560 | | 1 260 | 38 | 4 140 | | 1 320 | 28 | 3 270 | 28 |
| 29 | | 989 | 19 | 1 640 | | | | | | 1 310 | 30 | 3 390 | 29 |
| 30 | | 1 000 | 20 | 1 730 | | | | | | 1 300 | 29 | 3 260 | 30 |
| 31 | | 989 | 21 | 1 810 | | | | | | 1 270 | 33 | 3 720 | 31 |
| TOTAL | | 35 427 | | 116 014 | | 30 832 | | 56 188 | | 41 870 | | 181 800 | TOTAL |
| MEAN | | 1 140 | | 3 740 | | 1 100 | | 2 010 | | 1 350 | | 5 860 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.0 | 1 360 | 23 E | 2 740 | 10.0 | 3 280 | 127 E | 36 000 | 13.0 | 6 800 | 257 E | 150 000 | 1 |
| 2 | | 1 420 | 21 | 2 580 | 9.0 | 3 320 | 121 E | 34 700 | 13.0 | 6 820 | 316 E | 186 000 | 2 |
| 3 | | 1 420 | 26 | 3 210 | 9.0 | 3 330 | 109 E | 31 400 | 13.0 | 7 280 | 362 E | 228 000 | 3 |
| 4 | | 1 480 | 32 | 4 100 | 10.0 | 3 300 | 101 E | 28 800 | 13.0 | 7 270 | 348 E | 219 000 | 4 |
| 5 | | 1 500 | 40 | 5 180 | 10.0 | 3 330 | 101 E | 29 100 | 14.0 | 7 010 | 259 E | 157 000 | 5 |
| 6 | | 1 540 | 47 | 6 250 | 10.0 | 3 410 | 97 E | 28 600 | 14.0 | 6 610 | 224 E | 128 000 | 6 |
| 7 | | 1 560 | 58 | 7 850 | 10.0 | 3 470 | 104 E | 31 200 | 14.0 | 6 280 | 186 E | 101 000 | 7 |
| 8 | 6.0 | 1 630 | 76 E | 10 700 | 10.0 | 3 480 | 90 E | 27 100 | 14.0 | 6 020 | 161 E | 83 700 | 8 |
| 9 | | 1 760 | 107 | 16 300 | 10.0 | 3 510 | 90 E | 27 300 | 13.0 | 5 970 | 127 E | 65 500 | 9 |
| 10 | | 2 000 | 185 | 32 000 | 10.0 | 3 570 | 104 E | 32 100 | 13.0 | 5 300 | 160 E | 73 300 | 10 |
| 11 | | 2 110 | 188 | 34 300 | 9.0 | 3 660 | 118 E | 37 300 | | 5 080 | 133 | 58 400 | 11 |
| 12 | | 1 960 | 124 | 21 000 | 10.0 | 3 610 | 109 E | 34 000 | | 5 040 | 118 | 51 400 | 12 |
| 13 | | 1 840 | 96 | 15 300 | 11.0 | 3 530 | 87 E | 26 500 | 14.0 | 5 990 | 136 E | 70 400 | 13 |
| 14 | | 1 730 | 85 | 12 700 | 11.0 | 3 460 | 67 E | 20 100 | 14.0 | 5 920 | 130 E | 66 500 | 14 |
| 15 | 7.0 | 1 600 | 74 E | 10 200 | 11.0 | 3 410 | 64 E | 18 900 | 14.0 | 5 770 | 137 E | 68 300 | 15 |
| 16 | | 1 620 | 58 | 8 100 | 11.0 | 3 360 | 57 E | 16 500 | 14.0 | 5 490 | 99 E | 47 000 | 16 |
| 17 | | 1 610 | 55 | 7 650 | 11.0 | 3 360 | 61 E | 17 800 | 14.0 | 5 340 | 80 E | 36 900 | 17 |
| 18 | | 1 650 | 47 | 6 700 | 11.0 | 3 470 | 54 E | 16 200 | 14.0 | 5 320 | 107 E | 49 200 | 18 |
| 19 | | 1 740 | 40 | 6 010 | 11.0 | 3 670 | 65 E | 20 600 | | 5 280 | 120 | 54 700 | 19 |
| 20 | 9.5 | 1 870 | 48 E | 7 760 | 12.0 | 3 800 | 105 E | 34 500 | 14.0 | 5 420 | 116 E | 54 300 | 20 |
| 21 | | 2 040 | 76 | 13 400 | 12.0 | 4 060 | 131 E | 46 000 | 14.0 | 5 560 | 137 E | 65 800 | 21 |
| 22 | 8.0 | 2 200 | 114 E | 21 700 | 12.0 | 4 180 | 99 E | 35 800 | 14.0 | 5 560 | 272 E | 131 000 | 22 |
| 23 | | 2 300 | 150 | 29 800 | 13.0 | 4 200 | 167 E | 61 000 | | 5 340 | 226 | 104 000 | 23 |
| 24 | | 2 540 | 193 | 42 400 | 13.0 | 4 640 | 230 E | 92 200 | 14.0 | 5 000 | 255 E | 110 000 | 24 |
| 25 | | 2 940 | 213 | 54 100 | 13.0 | 4 930 | 277 E | 118 000 | 14.0 | 5 700 | 180 E | 88 600 | 25 |
| 26 | | 3 010 | 234 | 60 800 | 13.0 | 4 960 | 260 E | 111 000 | 13.0 | 5 420 | 135 E | 63 200 | 26 |
| 27 | 9.0 | 3 000 | 244 E | 63 300 | 13.0 | 5 060 | 236 E | 103 000 | 13.0 | 5 320 | 111 E | 51 000 | 27 |
| 28 | | 3 100 | 251 | 67 200 | 14.0 | 5 300 | 282 E | 129 000 | 14.0 | 5 300 | 103 E | 47 200 | 28 |
| 29 | 8.0 | 3 270 | 216 E | 61 000 | 14.0 | 5 680 | 290 E | 142 000 | 14.0 | 5 220 | 104 E | 46 900 | 29 |
| 30 | 10.0 | 3 280 | 160 E | 45 300 | 13.0 | 6 040 | 336 E | 175 000 | 15.0 | 5 080 | 101 E | 44 300 | 30 |
| 31 | | | | | 13.5 | 6 350 | 266 E | 146 000 | | | | | 31 |
| TOTAL | | 61 830 | | 886 000 | | 131 840 | | 1 705 000 | | 172 850 | | 2 503 300 | TOTAL |
| MEAN | | 2 060 | | 29 500 | | 4 250 | | 55 000 | | 5 760 | | 83 400 | MEAN |

BRITISH COLUMBIA

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 4 820 | 92 S | 38 300 | 16.0 | 4 490 | 83 S | 32 200 | | 2 520 | 45 | 9 800 | 1 |
| 2 | 15.0 | 4 880 | 84 S | 35 300 | | 4 350 | 78 | 29 700 | 16.0 | 2 590 | 46 S | 10 300 | 2 |
| 3 | 15.0 | 4 950 | 90 S | 38 500 | 16.0 | 4 230 | 78 S | 28 900 | | 2 580 | 50 | 11 100 | 3 |
| 4 | 15.0 | 4 980 | 86 S | 37 100 | | 4 180 | 78 | 27 100 | 16.0 | 2 580 | 51 S | 13 800 | 4 |
| 5 | 15.0 | 4 900 | 93 S | 39 400 | 17.0 | 4 180 | 71 S | 25 800 | | 2 900 | 80 | 13 900 | 5 |
| 6 | 15.0 | 4 840 | 83 S | 38 900 | | 4 150 | 67 | 24 000 | 16.0 | 2 700 | 45 S | 10 500 | 6 |
| 7 | 14.0 | 4 770 | 86 S | 36 300 | 17.0 | 4 120 | 66 S | 24 200 | | 2 900 | 84 | 16 900 | 7 |
| 8 | 14.0 | 4 820 | 83 S | 33 100 | | 4 000 | 74 | 25 600 | 13.0 | 2 830 | 87 S | 22 000 | 8 |
| 9 | 14.0 | 4 820 | 76 S | 30 500 | 20.0 | 3 880 | 81 S | 27 200 | | 2 840 | 84 | 20 500 | 9 |
| 10 | 14.0 | 4 480 | 72 S | 27 900 | | 3 810 | 79 | 26 000 | 13.0 | 2 800 | 81 S | 19 900 | 10 |
| 11 | | 4 520 | 83 | 32 400 | 18.0 | 3 720 | 75 S | 24 100 | | 2 780 | 73 | 17 900 | 11 |
| 12 | 11.0 | 5 140 | 180 S | 71 100 | | 3 680 | 69 | 21 900 | 14.0 | 2 850 | 80 S | 13 700 | 12 |
| 13 | | 5 050 | 144 | 62 800 | 18.0 | 3 690 | 63 S | 20 100 | | 2 450 | 62 | 11 000 | 13 |
| 14 | 14.0 | 5 430 | 130 S | 61 000 | | 3 680 | 60 | 19 000 | 16.0 | 2 330 | 47 S | 8 460 | 14 |
| 15 | 14.0 | 5 880 | 189 S | 85 980 | | 3 700 | 59 | 18 900 | | 2 230 | 38 | 7 320 | 15 |
| 16 | | 5 330 | 248 | 135 080 | 18.5 | 3 840 | 60 S | 16 900 | 16.0 | 2 170 | 31 S | 5 810 | 16 |
| 17 | | 5 450 | 252 | 140 000 | 20.0 | 3 580 | 60 S | 16 800 | | 2 170 | 33 | 6 190 | 17 |
| 18 | | 5 330 | 229 | 126 000 | | 3 510 | 62 | 16 800 | 12.0 | 2 170 | 41 S | 7 850 | 18 |
| 19 | | 5 080 | 207 | 108 000 | 18.0 | 3 480 | 64 S | 19 100 | | 2 180 | 48 | 8 700 | 19 |
| 20 | 15.0 | 5 830 | 184 S | 92 700 | | 3 400 | 63 | 18 500 | 14.0 | 2 270 | 49 S | 9 810 | 20 |
| 21 | | 5 570 | 182 | 78 000 | 15.0 | 3 300 | 61 S | 17 400 | | 2 250 | 47 | 9 140 | 21 |
| 22 | 15.0 | 5 310 | 143 S | 85 500 | | 3 180 | 58 | 16 200 | 15.0 | 2 180 | 44 S | 8 290 | 22 |
| 23 | | 5 180 | 141 | 83 200 | 18.0 | 3 020 | 55 S | 14 400 | | 2 110 | 40 | 7 290 | 23 |
| 24 | | 5 230 | 142 | 84 000 | | 2 880 | 52 | 12 900 | 13.0 | 2 020 | 38 S | 8 880 | 24 |
| 25 | | 5 170 | 136 | 80 700 | 18.0 | 2 780 | 48 S | 11 400 | | 1 880 | 31 | 5 300 | 25 |
| 26 | | 5 040 | 129 | 88 200 | | 2 880 | 45 | 10 400 | 12.0 | 1 950 | 25 S | 4 210 | 26 |
| 27 | | 4 890 | 122 | 81 500 | 18.0 | 2 840 | 40 S | 9 120 | | 1 940 | 28 | 4 880 | 27 |
| 28 | 15.0 | 4 810 | 112 S | 48 500 | | 2 550 | 37 | 8 280 | 12.0 | 1 900 | 34 S | 5 580 | 28 |
| 29 | | 4 780 | 101 | 41 700 | 16.0 | 2 580 | 38 S | 7 880 | | 1 850 | 34 | 5 430 | 29 |
| 30 | | 4 750 | 95 | 38 000 | | 2 530 | 41 | 8 980 | 13.0 | 1 880 | 30 S | 4 800 | 30 |
| 31 | | 4 620 | 89 | 35 500 | 16.0 | 2 500 | 45 S | 9 720 | | | | | 31 |
| TOTAL | | 150 140 | | 1 873 100 | | 105 030 | | 595 040 | | 70 500 | | 305 470 | TOTAL |
| MEAN | | 5 170 | | 80 400 | | 3 480 | | 19 200 | | 2 350 | | 10 200 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 880 | 29 | 4 710 | 7.0 | 2 230 | 63 S | 12 100 | 2.0 | 1 880 | 11 S | 1 480 | 1 |
| 2 | 10.0 | 1 830 | 32 S | 5 080 | | 2 180 | 60 | 11 200 | | 1 830 | 10 | 1 320 | 2 |
| 3 | | 1 780 | 34 | 5 280 | 9.0 | 2 530 | 90 S | 19 700 | 2.0 | 1 480 | 8 S | 1 140 | 3 |
| 4 | 10.0 | 1 780 | 32 S | 4 840 | | 2 890 | 128 | 32 200 | | 1 380 | 9 | 1 080 | 4 |
| 5 | | 1 700 | 26 S | 3 830 | 7.0 | 2 800 | 115 S | 27 300 | 1.0 | 1 310 | 9 S | 1 020 | 5 |
| 6 | 10.0 | 1 680 | 16 S | 2 280 | | 2 720 | 101 | 23 700 | | 1 230 | 9 | 958 | 6 |
| 7 | | 1 650 | 13 | 1 850 | 7.0 | 2 840 | 90 S | 20 500 | 1.0 | 1 170 | 9 S | 910 | 7 |
| 8 | 10.0 | 1 670 | 15 S | 2 180 | | 2 880 | 78 | 15 800 | | 1 100 B | 10 | 850 | 8 |
| 9 | | 1 880 | 14 | 2 030 | 7.0 | 2 410 | 48 S | 8 990 | 3.0 | 1 090 B | 11 S | 1 040 | 9 |
| 10 | 10.0 | 1 880 | 14 S | 2 010 | | 2 310 | 35 | 8 990 | | 1 080 B | 11 | 1 030 | 10 |
| 11 | | 1 810 | 13 | 1 810 | 7.0 | 2 310 | 40 S | 7 880 | 2.0 | 1 010 B | 9 S | 785 | 11 |
| 12 | 10.0 | 1 660 | 13 S | 1 750 | | 2 300 | 35 | 6 880 | | 980 B | 9 | 884 | 12 |
| 13 | | 1 520 | 11 | 1 440 | 7.0 | 2 180 | 35 S | 4 670 | 4.0 | 955 B | 9 S | 880 | 13 |
| 14 | 9.0 | 1 480 | 9 S | 1 150 | | 2 090 | 24 | 4 330 | | 870 B | 11 | 922 | 14 |
| 15 | | 1 480 | 8 | 1 010 | 7.0 | 2 240 | 36 S | 6 870 | 4.0 | 1 000 B | 21 S | 1 810 | 15 |
| 16 | 9.0 | 1 440 | 9 S | 1 120 | | 2 520 | 84 | 13 900 | | 930 B | 18 | 1 450 | 16 |
| 17 | | 1 420 | 10 | 1 230 | 7.0 | 2 280 | 46 S | 9 500 | | 870 B | 13 | 977 | 17 |
| 18 | 9.0 | 1 410 | 10 S | 1 220 | | 2 190 | 33 | 6 240 | | 820 B | 10 | 708 | 18 |
| 19 | | 1 420 | 10 | 1 230 | 7.0 | 2 150 | 22 S | 4 080 | | 790 B | 9 | 814 | 19 |
| 20 | 9.0 | 1 410 | 10 S | 1 220 | | 2 110 | 18 | 3 480 | | 800 B | 10 | 691 | 20 |
| 21 | | 1 400 | 8 | 1 090 | 7.0 | 2 070 | 20 S | 3 580 | | 790 B | 11 | 751 | 21 |
| 22 | 9.0 | 1 480 | 8 S | 1 020 | | 2 020 | 19 | 3 320 | | 780 B | 14 | 819 | 22 |
| 23 | | 1 470 | 10 | 1 270 | 5.0 | 1 940 | 16 S | 2 880 | | 780 B | 14 | 819 | 23 |
| 24 | 9.0 | 1 430 | 10 S | 1 240 | | 1 870 | 13 | 2 100 | | 770 B | 14 | 831 | 24 |
| 25 | | 1 440 | 12 | 1 480 | 5.0 | 1 810 | 12 S | 1 880 | | 780 B | 13 | 887 | 25 |
| 26 | 9.0 | 1 520 | 15 S | 1 970 | | 1 730 | 12 | 1 780 | | 810 B | 13 | 810 | 26 |
| 27 | | 1 880 | 19 | 2 710 | 5.0 | 1 880 | 15 S | 2 180 | | 825 B | 14 | 898 | 27 |
| 28 | 8.0 | 1 850 | 24 S | 3 420 | | 1 880 | 13 | 1 860 | | 830 B | 15 | 1 080 | 28 |
| 29 | | 1 880 | 28 | 4 180 | 4.0 | 1 840 | 11 S | 1 880 | | 850 B | 15 | 1 180 | 29 |
| 30 | 8.0 | 1 880 | 35 S | 5 800 | | 1 810 | 9 | 1 280 | 0.1 | 880 B | 15 S | 1 340 | 30 |
| 31 | | 2 320 | 82 | 16 400 | | | | | | 900 B | 18 | 1 400 | 31 |
| TOTAL | | 50 010 | | 85 490 | | 65 640 | | 271 380 | | 31 000 | | 31 542 | TOTAL |
| MEAN | | 1 610 | | 2 850 | | 2 190 | | 9 040 | | 1 000 | | 1 020 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 105 | |
| MAXIMUM DAILY | 382 | ON JUN 03 |
| MINIMUM DAILY | 8 | ON OCT 15 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 23 900 | |
| MAXIMUM DAILY | 239 000 | ON JUN 03 |
| MINIMUM DAILY | 614 | ON DEC 15 |

TOTAL SUSPENDED SEDIMENT LOAD 8 734 605 t

E - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 18 N
LONG 121 48 35 W
DRAINAGE AREA 218 000 km²
REGULATED FLOW SINCE 1952

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 22 | 08:55 | 2 200 M | 8.0 | 112 K | 21 | 28 | 38 | 45 | 53 | 83 | 80 | 97 | 100 | | | BNW |
| APR 27 | 11:05 | 3 120 | 8.0 | 282 K | 15 | 23 | 34 | 47 | 58 | 89 | 81 | 92 | 98 | 100 | | BNW |
| APR 28 | 08:30 | 3 270 M | 8.0 | 237 K | 13 | 18 | 28 | 37 | 48 | 81 | 78 | 98 | 100 | | | BNW |
| APR 30 | 09:00 | 3 280 M | 10.0 | 178 K | 5 | 15 | 28 | 39 | 50 | 81 | 76 | 93 | 99 | 100 | | BNW |
| MAY 05 | 10:10 | 3 300 M | 10.0 | 109 K | 13 | 23 | 38 | 48 | 57 | 87 | 79 | 94 | 99 | 100 | | BNW |
| MAY 11 | 08:45 | 3 850 M | 9.0 | 128 K | 15 | 23 | 30 | 40 | 50 | 82 | 76 | 88 | 97 | 100 | | BNW |
| MAY 21 | 09:05 | 4 050 N | 12.0 | 182 K | 9 | 15 | 24 | 32 | 42 | 65 | 73 | 92 | 99 | 100 | | BNW |
| MAY 23 | 09:30 | 4 290 M | 13.0 | 181 K | 15 | 20 | 28 | 34 | 41 | 60 | 68 | 90 | 98 | 100 | | BNW |
| MAY 24 | 09:30 | 4 840 M | 13.0 | 248 K | 10 | 14 | 19 | 28 | 34 | 45 | 61 | 83 | 97 | 100 | | BNW |
| MAY 25 | 09:00 | 4 930 M | 13.0 | 324 K | 3 | 8 | 18 | 22 | 30 | 41 | 56 | 80 | 97 | 100 | | BNW |
| MAY 27 | 09:00 | 5 000 M | 13.0 | 276 K | 8 | 8 | 19 | 28 | 34 | 44 | 58 | 80 | 97 | 100 | | BNW |
| MAY 28 | 09:30 | 5 280 M | 14.0 | 353 K | 5 | 12 | 18 | 26 | 36 | 48 | 64 | 78 | 90 | 100 | | BNW |
| MAY 29 | 09:30 | 5 880 M | 14.0 | 348 K | 5 | 12 | 19 | 27 | 37 | 50 | 66 | 87 | 98 | 100 | | BNW |
| MAY 30 | 09:00 | 6 040 M | 13.0 | 446 K | 5 | 8 | 16 | 25 | 32 | 42 | 56 | 86 | 98 | 100 | | BNW |
| MAY 31 | 09:30 | 6 270 M | 13.0 | 345 K | 8 | 11 | 17 | 28 | 34 | 47 | 65 | 83 | 95 | 100 | | BNW |
| MAY 31 | 11:21 | 6 270 | 13.8 | 285 R | 10 | 16 | 26 | 38 | 48 | 60 | 73 | 87 | 97 | 100 | | BNW |
| MAY 31 | 12:00 | 6 270 | 13.8 | 339 K | 10 | 11 | 20 | 29 | 37 | 48 | 64 | 81 | 98 | 100 | | BNW |
| JUN 01 | 09:30 | 6 500 M | 13.0 | 340 K | 7 | 12 | 17 | 23 | 31 | 43 | 62 | 82 | 97 | 100 | | BNW |
| JUN 02 | 09:00 | 6 820 M | 13.0 | 398 K | 8 | 11 | 18 | 24 | 34 | 47 | 64 | 82 | 98 | 100 | | BNW |
| JUN 03 | 08:48 | 7 250 M | 13.0 | 478 K | 8 | 11 | 18 | 28 | 37 | 51 | 68 | 83 | 98 | 100 | | BNW |
| JUN 03 | 09:30 | 7 250 M | 13.0 | 498 K | 9 | 15 | 22 | 32 | 44 | 57 | 73 | 88 | 98 | 100 | | BNW |
| JUN 04 | 09:30 | 7 270 M | 13.0 | 484 K | 8 | 14 | 23 | 33 | 47 | 62 | 77 | 90 | 97 | 100 | | BNW |
| JUN 05 | 08:35 | 7 010 M | 14.0 | 353 K | 8 | 12 | 23 | 35 | 48 | 60 | 76 | 87 | 97 | 100 | | BNW |
| JUN 05 | 09:15 | 6 780 M | 14.0 | 305 K | 9 | 13 | 23 | 35 | 45 | 57 | 70 | 82 | 93 | 100 | | BNW |
| JUN 06 | 10:24 | 6 780 | 14.0 | 226 R | 9 | 14 | 24 | 41 | 55 | 68 | 82 | 91 | 97 | 100 | | BNW |
| JUN 06 | 11:05 | 6 780 | 14.0 | 268 K | 3 | 10 | 20 | 32 | 43 | 54 | 67 | 78 | 90 | 100 | | BNW |
| JUN 07 | 08:30 | 6 280 M | 14.0 | 273 K | 13 | 18 | 24 | 32 | 41 | 51 | 67 | 78 | 87 | 100 | | BNW |
| JUN 08 | 08:00 | 6 020 M | 14.0 | 230 K | 15 | 17 | 23 | 32 | 41 | 51 | 65 | 80 | 93 | 100 | | BNW |
| JUN 09 | 08:30 | 5 970 M | 13.0 | 172 K | 20 | 22 | 25 | 36 | 46 | 58 | 69 | 78 | 87 | 100 | | BNW |
| JUN 10 | 07:48 | 6 200 M | 13.0 | 207 K | 5 | 11 | 17 | 26 | 35 | 45 | 60 | 77 | 92 | 100 | | BNW |
| JUN 13 | 11:58 | 6 000 M | 14.0 | 190 K | 9 | 12 | 19 | 29 | 38 | 47 | 58 | 77 | 92 | 100 | | BNW |
| JUN 13 | 12:45 | 6 000 M | 14.0 | 210 K | 12 | 17 | 21 | 28 | 36 | 44 | 56 | 70 | 92 | 100 | | BNW |
| JUN 15 | 09:30 | 5 770 M | 14.0 | 214 K | 9 | 16 | 23 | 28 | 38 | 49 | 58 | 66 | 86 | 100 | | BNW |
| JUN 18 | 09:00 | 5 330 M | 14.0 | 180 K | 11 | 15 | 21 | 28 | 36 | 43 | 58 | 85 | 98 | 100 | | BNW |
| JUN 21 | 12:52 | 5 800 | 14.0 | 194 K | 9 | 11 | 16 | 28 | 39 | 48 | 61 | 77 | 90 | 100 | | BNW |
| JUN 22 | 09:30 | 5 980 M | 14.0 | 410 K | 8 | 13 | 22 | 31 | 41 | 54 | 68 | 84 | 97 | 100 | | BNW |
| JUN 24 | 09:00 | 6 080 M | 14.0 | 341 K | 10 | 13 | 21 | 30 | 39 | 49 | 58 | 68 | 82 | 100 | | BNW |
| JUN 28 | 08:30 | 5 380 M | 14.0 | 148 K | 13 | 19 | 28 | 37 | 48 | 57 | 68 | 81 | 91 | 100 | | BNW |
| JUN 30 | 10:00 | 5 000 M | 15.0 | 138 K | 10 | 18 | 28 | 37 | 45 | 53 | 69 | 81 | 93 | 100 | | BNW |
| JUL 03 | 10:00 | 4 950 M | 15.0 | 109 K | 15 | 23 | 33 | 43 | 53 | 64 | 75 | 83 | 90 | 100 | | BNW |
| JUL 05 | 09:00 | 4 840 M | 15.0 | 104 K | 14 | 22 | 33 | 47 | 57 | 65 | 73 | 82 | 91 | 100 | | BNW |
| JUL 12 | 12:50 | 5 380 | 14.0 | 178 K | 1 | 7 | 19 | 34 | 47 | 63 | 77 | 88 | 95 | 100 | | BNW |
| JUL 14 | 11:43 | 5 430 M | 14.0 | 133 K | 10 | 18 | 24 | 34 | 43 | 51 | 60 | 67 | 80 | 100 | | BNW |
| JUL 15 | 07:20 | 5 880 M | 14.0 | 158 K | 8 | 12 | 22 | 33 | 43 | 54 | 67 | 79 | 90 | 100 | | BNW |
| JUL 20 | 08:20 | 5 830 M | 15.0 | 189 K | 21 | 24 | 33 | 45 | 57 | 68 | 81 | 94 | 98 | 100 | | BNW |
| JUL 22 | 08:11 | 5 310 M | 16.0 | 155 K | 20 | 28 | 38 | 48 | 58 | 68 | 80 | 91 | 96 | 100 | | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

FRASER RIVER NEAR ABBOTSFORD - STATION NO. 08MF035

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | VERTICAL (m) | DEPTH OF SAMPLE (m) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 08 | 13:10 | | | 91.4 | 0.15 | 201 | 9 | 11 | 28 | 50 | 72 | 84 | 90 | 94 | 97 | 100 | | BNW |
| | | | | | 1.22 | 230 | 29 | 33 | 41 | 55 | 67 | 80 | 90 | 95 | 98 | 100 | | BNW |
| | | | | | 2.44 | 208 | 16 | 18 | 30 | 48 | 62 | 77 | 88 | 95 | 98 | 100 | | BNW |
| | | | | | 3.65 | 188 | 13 | 18 | 28 | 47 | 63 | 78 | 91 | 96 | 100 | | | BNW |
| | | | | | 4.88 | 191 | 23 | 28 | 41 | 60 | 73 | 84 | 90 | 94 | 98 | 100 | | BNW |
| | | | | | 5.49 | 186 | 29 | 34 | 41 | 58 | 69 | 81 | 93 | 97 | 98 | 100 | | BNW |
| | | | | | 5.84 | 217 | 9 | 11 | 27 | 45 | 56 | 67 | 77 | 87 | 95 | 100 | | BNW |
| | | | | | 6.10 | | STREAMBED | | | | | | | | | | | |
| | | | | 182.9 | 0.15 | 181 | 5 | 15 | 28 | 51 | 65 | 78 | 89 | 96 | 99 | 100 | | BNW |
| | | | | | 1.71 | 213 | 10 | 14 | 27 | 41 | 57 | 71 | 81 | 88 | 95 | 100 | | BNW |
| | | | | | 3.44 | 220 | 13 | 22 | 38 | 60 | 84 | 70 | 86 | 96 | 99 | 100 | | BNW |
| | | | | | 4.57 | 214 | 6 | 10 | 20 | 41 | 53 | 65 | 80 | 88 | 100 | | | BNW |
| | | | | | 5.58 | 281 | 9 | 14 | 27 | 41 | 60 | 80 | 77 | 93 | 99 | 100 | | BNW |
| | | | | | 5.73 | | STREAMBED | | | | | | | | | | | |
| | | | | 274.3 | 0.15 | 178 | 24 | 32 | 41 | 54 | 65 | 78 | 83 | 98 | 100 | | | BNW |
| | | | | | 1.43 | 261 | 18 | 24 | 34 | 45 | 56 | 68 | 82 | 90 | 95 | 100 | | BNW |
| | | | | | 2.83 | 283 | 17 | 23 | 32 | 43 | 53 | 63 | 77 | 89 | 97 | 100 | | BNW |
| | | | | | 3.78 | 356 | 17 | 28 | 36 | 48 | 58 | 68 | 81 | 90 | 97 | 100 | | BNW |
| | | | | | 4.57 | 510 | 6 | 10 | 15 | 21 | 27 | 33 | 40 | 72 | 96 | 100 | | BNW |
| | | | | | 4.72 | | STREAMBED | | | | | | | | | | | |
| | | | | 365.8 | 0.15 | 184 | 8 | 15 | 31 | 47 | 64 | 80 | 91 | 95 | 98 | 100 | | BNW |
| | | | | | 1.31 | 276 | 33 | 26 | 33 | 48 | 58 | 68 | 80 | 90 | 96 | 100 | | BNW |
| | | | | | 2.82 | 261 | 27 | 28 | 32 | 41 | 52 | 64 | 76 | 84 | 94 | 100 | | BNW |
| | | | | | 3.47 | 274 | 8 | 11 | 24 | 36 | 45 | 58 | 71 | 87 | 97 | 100 | | BNW |
| | | | | | 4.21 | 488 | 2 | 6 | 11 | 18 | 23 | 29 | 36 | 45 | 85 | 100 | | BNW |
| | | | | | 4.36 | | STREAMBED | | | | | | | | | | | |
| | | | | 457.2 | 0.15 | 154 | 14 | 21 | 30 | 52 | 73 | 83 | 87 | 94 | 98 | 100 | | BNW |
| | | | | | 1.65 | 187 | 16 | 30 | 40 | 58 | 75 | 89 | 96 | 100 | | | | BNW |
| | | | | | 3.11 | 188 | 19 | 35 | 40 | 55 | 74 | 88 | 96 | 98 | 100 | | | BNW |
| | | | | | 4.88 | 157 | 11 | 14 | 38 | 55 | 74 | 88 | 99 | 100 | | | | BNW |
| | | | | | 6.22 | 197 | 8 | 11 | 28 | 49 | 70 | 80 | 87 | 93 | 97 | 100 | | BNW |
| | | | | | 7.01 | 307 | 19 | 28 | 38 | 51 | 62 | 72 | 80 | 87 | 92 | 100 | | BNW |
| | | | | | 7.62 | 432 | 9 | 11 | 15 | 24 | 30 | 34 | 39 | 47 | 84 | 100 | | BNW |
| | | | | | 7.77 | | STREAMBED | | | | | | | | | | | |

FRASER RIVER NEAR ABBOTSFORD - STATION NO. 08MF035

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASURE-MENT ($m^3/s$) | NUMBER OF SAMPLING POINTS | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | 4.000 | 8.000 | 16.000 | 32.000 | 64.000 | METHOD OF ANALYSIS | TYPE OF SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 31 | 13:28 | 6 270 | 5 | 1 | 5 | 18 | 64 | 71 | 72 | 72 | 74 | 80 | 91 | 100 | | | 5 | VUV |
| JUN 08 | 14:10 | 6 780 | 5 | | 1 | 7 | 43 | 50 | 61 | 62 | 63 | 62 | 87 | 100 | | | 5 | VUV |

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 390 B | 8 | 270 | | 380 B | 47 | 1 540 | | 480 B | 144 | 5 800 | 1 |
| 2 | | 390 B | 9 | 303 | | 380 B | 58 S | 1 900 | 1.5 | 467 B | 113 S | 4 470 | 2 |
| 3 | | 390 B | 8 | 270 | | 380 B | 37 | 1 210 | | 470 B | 88 | 3 570 | 3 |
| 4 | | 380 B | 7 S | 238 | | 380 B | 17 S | 568 | | 480 B | 69 | 2 880 | 4 |
| 5 | | 390 B | 8 | 270 | | 380 B | 10 | 328 | | 500 B | 51 S | 2 200 | 5 |
| 6 | | 390 B | 10 | 337 | | 380 B | 8 | 263 | | 520 B | 37 | 1 660 | 6 |
| 7 | | 390 B | 14 | 472 | | 380 B | 8 | 263 | | 520 B | 33 S | 1 480 | 7 |
| 8 | | 380 B | 17 | 573 | | 380 B | 7 | 230 | | 520 E | 34 | 1 620 | 8 |
| 9 | | 390 B | 21 | 708 | | 380 B | 7 S | 230 | | 510 E | 46 | 2 030 | 9 |
| 10 | | 389 B | 24 S | 807 | | 380 B | 7 | 230 | | 500 E | 65 | 2 810 | 10 |
| 11 | | 389 B | 28 | 840 | | 375 B | 10 | 324 | | 500 E | 81 S | 3 830 | 11 |
| 12 | | 389 B | 22 | 773 | | 375 B | 14 | 454 | | 500 E | 108 | 4 710 | 12 |
| 13 | | 390 B | 19 | 640 | | 375 B | 17 | 551 | | 515 E | 125 S | 5 580 | 13 |
| 14 | | 390 B | 15 | 505 | | 375 B | 21 | 680 | | 528 | 163 | 7 440 | 14 |
| 15 | | 391 B | 7 | 238 | | 375 B | 25 S | 810 | | 535 | 189 | 8 750 | 15 |
| 16 | | 391 B | 5 | 188 | | 380 B | 32 | 1 050 | | 595 | 229 | 11 800 | 16 |
| 17 | | 392 B | 6 S | 203 | | 380 B | 40 | 1 310 | | 608 | 320 S | 16 800 | 17 |
| 18 | | 392 B | 7 | 237 | | 385 B | 50 | 1 660 | | 620 | 378 S | 20 300 | 18 |
| 19 | | 391 B | 8 | 270 | | 385 B | 63 | 2 100 | | 624 | 223 S | 12 000 | 19 |
| 20 | | 391 B | 8 | 270 | | 385 B | 78 | 2 630 | | 624 | 145 | 7 820 | 20 |
| 21 | | 390 B | 9 | 303 | | [illegible] | 95 S | 3 200 | | 604 | 108 | 5 830 | 21 |
| 22 | | 389 B | 10 | 336 | | [illegible] | 113 | 3 680 | | 576 | 84 | 4 180 | 22 |
| 23 | | 386 B | 10 | 335 | | [illegible] | 132 | 4 580 | | 582 | 70 S | 3 340 | 23 |
| 24 | | 387 B | 10 | 334 | | [illegible] | 151 | 5 220 | | 526 | 61 | 2 770 | 24 |
| 25 | | 386 B | 10 | 334 | | [illegible] | 169 | 5 890 | | 518 | 59 S | 3 830 | 25 |
| 26 | | 384 B | 10 | 332 | | 420 B | 182 | 6 600 | | 500 E | 86 | 2 850 | 26 |
| 27 | | 383 B | 9 | 298 | | 430 B | 185 | 6 870 | | 490 E | 77 | 3 260 | 27 |
| 28 | | 382 B | 10 S | 331 | | 440 B | 174 S | 6 610 | | 490 E | 91 | 3 850 | 28 |
| 29 | | 382 B | 12 | 396 | | | | | | 495 | 110 S | 4 710 | 29 |
| 30 | | 380 B | 19 | 624 | | | | | | 504 | 148 | 6 440 | 30 |
| 31 | | 380 B | 31 | 1 020 | | | | | | 536 | 184 S | 8 520 | 31 |
| TOTAL | | 12 037 | | 13 032 | | 10 875 | | 81 231 | | 15 388 | | 175 480 | TOTAL |
| MEAN | | 388 | | 420 | | 388 | | 2 190 | | 526 | | 5 660 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 868 | 184 S | 9 030 | | 1 420 | 114 S | 14 000 | | | | | |
| 2 | | 804 | 172 | 8 930 | | 1 410 | 103 S | 12 500 | 13.0 | 2 750 | 763 S | 178 000 | 1 |
| 3 | | 832 | 184 | 8 930 | | 1 390 | 138 | 16 700 | | 2 950 | 736 S | 188 000 | 2 |
| 4 | | 880 | 183 S | 9 290 | | 1 380 | 144 | 18 900 | | 2 950 | 580 | 145 000 | 3 |
| 5 | | 880 | 178 S | 10 300 | | 1 380 | 118 | 14 200 | | 2 840 | 398 | 97 200 | 4 |
| 6 | | 712 | 200 S | 12 300 | | 1 420 | 88 S | 11 800 | | 2 820 | 251 S | 59 100 | 5 |
| 7 | | 814 | 327 | 23 000 | | 1 440 | 107 S | 13 300 | | 2 420 | 181 S | 37 800 | 6 |
| 8 | 1 | 040 | 720 S | 64 700 | | 1 480 | 125 S | 16 000 | | 2 280 | 162 S | 31 900 | 7 |
| 9 | 1 | 180 | 633 S | 64 900 | | 1 580 | 148 S | 19 900 | 12.0 | 2 480 | 206 S | 44 300 | 8 |
| 10 | 1 | 150 | 440 | 43 700 | | 1 810 | 182 S | 22 900 | | 2 820 | 138 | 30 000 | 9 |
| 11 | 1 | 040 | 251 | 22 800 | | 1 520 | 126 | 16 700 | | 2 480 | 128 | 27 200 | 10 |
| 12 | | 918 | 132 S | 10 400 | | 1 440 | 84 S | 10 500 | | 2 600 | 202 S | 43 800 | 11 |
| 13 | | 832 | 82 S | 6 810 | | 1 360 | 76 S | 8 800 | | 2 780 | 263 S | 88 000 | 12 |
| 14 | | 767 | 78 S | 5 170 | | 1 290 | 63 S | 7 020 | | 2 750 | 233 S | 55 400 | 13 |
| 15 | | 718 | 88 S | 4 280 | | 1 280 | 58 S | 6 410 | | 2 690 | 181 S | 38 000 | 14 |
| 16 | | 708 | 85 | 3 360 | | 1 310 | 84 | 8 110 | | 2 390 | 122 | 25 200 | 15 |
| 17 | | 736 | 84 | 3 430 | | 1 330 | 81 | 9 880 | | | | | |
| 18 | | 798 | 76 S | 5 230 | 13.0 | 1 410 | 78 S | 9 280 | | 2 250 | 121 | 23 500 | 16 |
| 19 | | 886 | 105 S | 8 040 | 14.0 | 1 480 | 108 S | 13 400 | | 2 200 | 108 S | 20 500 | 17 |
| 20 | 1 | 010 | 149 S | 13 000 | 13.5 | 1 630 | 99 S | 13 100 | | 2 230 | 148 S | 28 300 | 18 |
| 21 | 1 | 130 | 208 S | 20 100 | 13.0 | 1 820 | 108 S | 14 300 | | 2 470 | 211 S | 45 000 | 19 |
| 22 | 1 | 220 | 237 | 35 500 | | 1 880 | 184 | 28 700 | | 2 840 | 252 S | 57 500 | 20 |
| 23 | 1 | 380 | 437 | 51 300 | | 1 920 | 343 | 56 800 | | | | | |
| 24 | 1 | 480 | 387 S | 48 900 | 13.0 | 1 950 | 288 S | 48 200 | | 3 010 | 384 | 99 800 | 21 |
| 25 | 8.5 1 | 480 | 266 S | 36 800 | 13.5 | 1 900 | 228 S | 37 400 | | 3 220 | 408 | 114 000 | 22 |
| 26 | 1 | 520 | 300 S | 39 400 | 13.5 | 1 830 | 197 S | 32 900 | | 2 980 | 277 S | 71 800 | 23 |
| 27 | 1 | 510 | 282 S | 35 400 | 13.0 | 2 030 | 210 S | 36 800 | | 2 880 | 202 S | 47 200 | 24 |
| 28 | 1 | 540 | 184 S | 25 800 | | 2 120 | 388 | 71 200 | | 2 880 | 161 S | 34 800 | 25 |
| 29 | 1 | 480 | 153 | 19 200 | | 2 100 | 321 | 58 200 | | 2 800 | 170 S | 38 700 | 26 |
| 30 | 1 | 400 | 129 S | 15 800 | | 2 080 | 376 | 67 800 | 14.0 | 2 550 | 189 S | 41 800 | 27 |
| 31 | | | | | 17.0 | 2 480 | 606 S | 107 000 | | 2 420 | 168 | 35 100 | 28 |
| TOTAL | 30 637 | | | 688 870 | | 49 880 | | 787 380 | | 2 280 | 117 S | 22 800 | 29 |
| MEAN | 1 020 | | | 22 200 | | 1 610 | | 25 400 | | 2 170 | 135 S | 23 400 | 30 |
| | | | | | | | | | | | | | 31 |
| | | | | | | | | | | 77 500 | | 1 770 800 | TOTAL |
| | | | | | | | | | | 2 580 | | 59 000 | MEAN |

BRITISH COLUMBIA

FRASER RIVER NEAR MARGUERITE - STATION NO. 08NC010

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 200 | 150 S | 28 500 | | 2 140 | 80 | 14 800 | | 1 110 | 35 | 3 480 | 1 |
| 2 | | 2 250 | 131 S | 25 800 | | 2 080 | 84 | 11 400 | | 1 100 | 35 | 3 420 | 2 |
| 3 | | 2 350 | 108 | 21 800 | | 2 020 | 82 | 10 800 | 15.5 | 1 110 | 35 S | 3 450 | 3 |
| 4 | | 2 350 | 97 | 19 700 | 15.0 | 2 100 | 74 S | 14 200 | 15.0 | 1 120 | 46 S | 4 880 | 4 |
| 5 | 13.5 | 2 240 | 98 S | 18 800 | 14.5 | 2 130 | 88 S | 16 200 | 15.0 | 1 280 | 86 S | 9 360 | 5 |
| 6 | | 2 180 | 100 | 18 800 | 14.5 | 2 100 | 104 S | 18 800 | 14.0 | 1 480 | 133 S | 17 000 | 6 |
| 7 | | 2 180 | 105 S | 19 800 | 14.5 | 2 000 | 94 S | 16 200 | | 1 480 | 158 | 20 300 | 7 |
| 8 | 14.0 | 2 140 | 100 S | 18 500 | | 1 950 | 70 | 11 800 | | 1 400 | 126 | 15 200 | 8 |
| 9 | | 2 200 | 91 | 17 300 | | 1 790 | 64 | 9 500 | 13.0 | 1 400 | 83 S | 10 000 | 9 |
| 10 | | 2 110 | 91 | 16 800 | | 1 710 | 86 S | 10 000 | 12.0 | 1 280 | 82 S | 7 020 | 10 |
| 11 | 13.5 | 2 020 | 110 S | 19 200 | | 1 650 | 69 | 10 000 | 11.5 | 1 200 | 80 S | 5 180 | 11 |
| 12 | 13.0 | 1 980 | 175 S | 28 800 | | 1 650 | 67 | 9 730 | 11.5 | 1 120 | 32 S | 3 100 | 12 |
| 13 | 13.0 | 2 230 | 250 S | 48 200 | | 1 720 | 63 | 12 300 | | 1 110 | 33 | 2 210 | 13 |
| 14 | 12.0 | 2 590 | 345 S | 80 200 | | 1 770 | 102 | 15 800 | | 1 010 | 34 | 2 980 | 14 |
| 15 | | 3 080 | 414 | 111 000 | | 1 760 | 88 | 15 000 | | 970 | 26 | 2 100 | 15 |
| 16 | | 3 080 | 339 | 90 800 | 14.0 | 1 700 | 85 S | 12 800 | | 988 | 25 | 2 120 | 16 |
| 17 | 11.5 | 3 080 | 284 S | 87 800 | 14.0 | 1 690 | 78 S | 11 400 | | 1 040 | 30 | 2 700 | 17 |
| 18 | 11.5 | 3 040 | 195 S | 51 200 | 13.5 | 1 650 | 74 S | 10 700 | | 1 080 | 34 | 3 170 | 18 |
| 19 | | 2 880 | 178 | 43 800 | 13.0 | 1 700 | 78 S | 11 500 | | 1 130 | 37 | 3 810 | 19 |
| 20 | 12.5 | 2 700 | 177 S | 41 300 | | 1 670 | 84 | 12 100 | | 1 100 | 37 | 3 520 | 20 |
| 21 | | 2 810 | 187 | 42 200 | | 1 550 | 73 | 9 780 | 9.5 | 1 080 | 25 S | 2 640 | 21 |
| 22 | | 2 810 | 202 | 46 800 | 13.0 | 1 440 | 80 S | 7 480 | 10.0 | 880 | 23 S | 1 950 | 22 |
| 23 | | 2 690 | 198 | 46 300 | 13.5 | 1 320 | 85 S | 8 270 | | 840 | 21 | 1 710 | 23 |
| 24 | | 2 650 | 190 | 43 700 | 14.0 | 1 250 | 48 S | 5 280 | 11.0 | 918 | 21 S | 1 680 | 24 |
| 25 | | 2 570 | 173 | 38 400 | 14.5 | 1 230 | 42 S | 4 430 | | 910 | 21 | 1 650 | 25 |
| 26 | | 2 480 | 171 | 38 200 | | 1 180 | 36 S | 3 810 | | 904 | 21 | 1 840 | 26 |
| 27 | | 2 480 | 168 | 35 700 | | 1 170 | 38 | 3 540 | 11.0 | 882 | 20 S | 1 640 | 27 |
| 28 | | 2 480 | 133 | 28 300 | | 1 180 | 34 | 3 410 | | 880 | 20 | 1 630 | 28 |
| 29 | 14.0 | 2 480 | 88 S | 21 200 | | 1 160 | 33 | 3 310 | | 940 | 19 | 1 540 | 29 |
| 30 | 14.5 | 2 380 | 84 S | 19 300 | 17.0 | 1 130 | 34 S | 3 320 | 10.0 | 888 | 18 S | 1 440 | 30 |
| 31 | 15.0 | 2 280 | 84 S | 18 400 | 17.0 | 1 130 | 35 S | 3 420 | | | | | 31 |
| TOTAL | | 76 820 | | 1 183 500 | | 50 770 | | 308 370 | | 32 818 | | 140 850 | TOTAL |
| MEAN | | 2 470 | | 37 800 | | 1 640 | | 9 950 | | 1 050 | | 4 700 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 874 | 17 | 1 280 | | 1 050 E | 85 | 7 710 | | 804 | 9 | 470 | 1 |
| 2 | | 838 | 16 | 1 180 | | 1 000 E | 103 | 8 900 | | 880 | 9 S | 438 | 2 |
| 3 | 9.0 | 802 | 16 S | 1 110 | | 1 100 E | 131 | 12 500 | | 800 | 8 | 346 | 3 |
| 4 | | 778 | 17 | 1 160 | | 1 300 E | 147 | 15 200 | | 480 E | 8 | 332 | 4 |
| 5 | | 788 | 19 | 1 130 | | 1 300 E | 138 | 15 500 | | 480 E | 7 | 278 | 5 |
| 6 | 9.0 | 788 | 17 S | 1 170 | | 1 280 E | 118 | 12 700 | | 440 E | 8 | 304 | 6 |
| 7 | | 828 | 17 | 1 210 | | 1 180 | 84 | 9 880 | | 440 E | 8 | 304 | 7 |
| 8 | | 844 | 14 | 1 020 | | 1 100 E | 74 | 7 030 | | 440 E | 7 | 288 | 8 |
| 9 | 8.0 | 838 | 12 S | 888 | | 1 050 E | 87 | 9 170 | | 430 E | 7 S | 280 | 9 |
| 10 | | 780 | 12 | 818 | | 1 000 E | 48 | 4 150 | | 420 E | 8 | 290 | 10 |
| 11 | | 764 | 13 | 847 | | 950 E | 40 | 3 280 | | 410 E | 11 | 380 | 11 |
| 12 | 8.0 | 730 | 14 S | 883 | | 930 E | 32 | 2 570 | | 400 E | 17 | 888 | 12 |
| 13 | | 700 | 15 | 907 | | 900 E | 28 | 1 940 | | 380 E | 24 | 809 | 13 |
| 14 | 8.0 | 884 | 15 S | 888 | | 885 | 21 | 1 610 | | 380 E | 31 S | 1 040 | 14 |
| 15 | 7.5 | 878 | 15 S | 878 | 4.0 | 878 | 17 S | 1 280 | | 385 E | 33 | 1 100 | 15 |
| 16 | | 888 | 15 | 886 | | 888 | 19 | 1 420 | | 380 E | 34 | 1 120 | 16 |
| 17 | | 880 | 15 | 881 | | 888 | 24 | 1 800 | | 378 E | 35 | 1 130 | 17 |
| 18 | 7.0 | 880 | 15 S | 881 | | 892 | 29 | 2 230 | | 376 E | 32 | 1 040 | 18 |
| 19 | 7.0 | 888 | 15 S | 886 | | 910 | 28 | 2 200 | | 370 E | 28 | 895 | 19 |
| 20 | | 884 | 14 | 803 | | 910 | 24 S | 1 890 | | 370 E | 23 S | 735 | 20 |
| 21 | 7.0 | 880 | 14 S | 788 | | 874 | 20 | 1 510 | | 370 E | 18 | 575 | 21 |
| 22 | | 872 | 20 | 1 180 | | 814 | 18 | 1 270 | | 370 E | 13 | 416 | 22 |
| 23 | | 880 | 37 | 1 680 | | 788 | 18 | 1 080 | | 385 E | 8 | 262 | 23 |
| 24 | | 728 | 38 | 2 280 | | 888 | 13 | 782 | | 385 E | 5 | 158 | 24 |
| 25 | | 784 | 37 | 2 510 | | 888 | 13 | 780 | | 380 E | 3 | 83.3 | 25 |
| 26 | | 784 | 37 | 2 410 | | 858 | 13 S | 737 | | 380 E | 3 | 83.3 | 26 |
| 27 | 8.0 | 748 | 40 S | 2 580 | | 880 | 12 | 684 | | 380 E | 3 S | 83.3 | 27 |
| 28 | | 888 | 62 | 4 880 | | 860 | 11 | 827 | | 380 E | 3 | 83.3 | 28 |
| 29 | 1 | 120 | 88 | 8 480 | | 844 | 10 | 888 | | 380 E | 4 | 124 | 29 |
| 30 | 1 | 150 | 100 S | 8 840 | | 838 | 10 | 850 | | 370 E | 5 | 182 | 30 |
| 31 | 1 | 080 | 88 | 7 930 | | | | | | 380 E | 9 | 288 | 31 |
| TOTAL | 34 | 384 | | 84 878 | | 27 307 | | 127 278 | | 12 838 | | 14 517.2 | TOTAL |
| MEAN | | 783 | | 2 090 | | 810 | | 4 240 | | 408 | | 488 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 148 | |
| MAXIMUM DAILY | 783 | ON JUN 01 |
| MINIMUM DAILY | 3 | ON DEC 26 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 14 500 | |
| MAXIMUM DAILY | 188 000 | ON JUN 02 |
| MINIMUM DAILY | 83.3 | ON DEC 26 |

TOTAL SUSPENDED SEDIMENT LOAD 5 394 985.2 t

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 31 48 N
LONG 122 26 32 W
DRAINAGE AREA 114 000 $km^2$
REGULATED FLOW SINCE 1952

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

FRASER RIVER NEAR MARGUERITE - STATION NO. 08MC018

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 24 | 15:25 | 1 480 | M | | | | | | | | | | | | | | |
| MAY 24 | 05:34 | 1 950 | M | 12.5 | 385 | K | 14 | 18 | 27 | 45 | 61 | 73 | 82 | 94 | 99 | 100 | | BNW |
| MAY 24 | 11:20 | 1 950 | M | 13.0 | 308 | K | 14 | 18 | 31 | 51 | 68 | 82 | 95 | 99 | 100 | | | BNW |
| MAY 25 | 11:58 | 1 900 | M | 13.5 | 283 | K | 11 | 20 | 33 | 48 | 63 | 78 | 91 | 98 | 100 | | | BNW |
| MAY 26 | 05:23 | 1 830 | M | 13.0 | 342 | K | 18 | 28 | 42 | 59 | 71 | 83 | 94 | 99 | 100 | | | BNW |
| MAY 26 | 11:26 | 1 930 | M | 13.5 | 330 | K | 16 | 21 | 33 | 47 | 62 | 75 | 87 | 98 | 100 | | | BNW |
| MAY 27 | 05:34 | 2 030 | M | 13.0 | 187 | K | 7 | 14 | 27 | 44 | 58 | 69 | 80 | 91 | 97 | 100 | | BNW |
| MAY 31 | 14:02 | 2 810 | | 17.0 | 203 | K | 8 | 7 | 23 | 38 | 50 | 63 | 78 | 89 | 96 | 100 | | BNW |
| MAY 31 | 14:04 | 2 810 | | 17.0 | 507 | R | 10 | 14 | 23 | 36 | 46 | 58 | 73 | 89 | 96 | 100 | | BNW |
| MAY 31 | 18:54 | 2 450 | M | 16.0 | 544 | K | 7 | 8 | 18 | 30 | 45 | 63 | 78 | 91 | 97 | 100 | | BNW |
| JUN 01 | 18:39 | 2 750 | M | | 821 | K | 8 | 8 | 17 | 28 | 44 | 61 | 78 | 91 | 97 | 100 | | BNW |
| JUN 02 | 08:15 | 2 880 | M | 13.0 | 878 | K | 8 | 9 | 18 | 28 | 38 | 51 | 70 | 84 | 100 | | | BNW |
| JUN 02 | 12:28 | 2 880 | M | | 786 | K | 8 | 13 | 21 | 31 | 43 | 54 | 75 | 90 | 98 | 100 | | BNW |
| JUN 05 | 08:27 | 2 820 | M | | 788 | K | 8 | 11 | 20 | 30 | 43 | 57 | 70 | 82 | 91 | 100 | | BNW |
| JUN 06 | 10:43 | 2 430 | M | | 298 | K | 11 | 17 | 28 | 41 | 52 | 65 | 77 | 88 | 93 | 100 | | BNW |
| JUN 07 | 11:05 | 2 280 | M | | 202 | K | 12 | 18 | 30 | 44 | 54 | 64 | 80 | 91 | 98 | 100 | | BNW |
| JUN 08 | 08:30 | 2 490 | M | 12.0 | 152 | K | 8 | 18 | 31 | 45 | 57 | 69 | 80 | 88 | 94 | 100 | | BNW |
| JUN 08 | 11:38 | 2 490 | M | | 227 | K | 19 | 24 | 33 | 44 | 54 | 64 | 73 | 81 | 93 | 100 | | BNW |
| JUN 11 | 18:26 | 2 800 | M | | 208 | K | 7 | 11 | 22 | 34 | 47 | 58 | 78 | 88 | 100 | | | BNW |
| JUN 12 | 13:01 | 2 780 | M | | 239 | K | 13 | 18 | 28 | 38 | 48 | 58 | 80 | 92 | 98 | 100 | | BNW |
| JUN 13 | 13:32 | 2 750 | M | | 308 | K | 13 | 17 | 28 | 38 | 48 | 58 | 80 | 92 | 98 | 100 | | BNW |
| JUN 14 | 16:40 | 2 590 | M | | 228 | K | 11 | 17 | 28 | 40 | 50 | 60 | 78 | 88 | 95 | 100 | | BNW |
| JUN 19 | 05:15 | 2 470 | M | | 180 | K | 15 | 19 | 32 | 44 | 52 | 61 | 85 | 78 | 88 | 100 | | BNW |
| JUN 19 | 11:44 | 2 470 | M | | 203 | K | 17 | 23 | 32 | 47 | 58 | 68 | 78 | 88 | 97 | 100 | | BNW |
| JUN 20 | 11:00 | 2 840 | M | | 224 | K | 12 | 19 | 31 | 44 | 54 | 65 | 78 | 89 | 97 | 100 | | BNW |
| JUN 23 | 12:20 | 2 550 | M | | 247 | K | 10 | 17 | 28 | 37 | 49 | 61 | 78 | 87 | 97 | 100 | | BNW |
| JUN 26 | 18:08 | 2 500 | M | | 271 | K | 11 | 18 | 27 | 37 | 48 | 57 | 71 | 86 | 98 | 100 | | BNW |
| JUN 27 | 10:15 | 2 550 | M | 14.0 | 167 | K | 16 | 24 | 32 | 44 | 54 | 64 | 73 | 91 | 98 | 100 | | BNW |
| JUN 30 | 11:12 | 2 170 | M | | 176 | K | 18 | 21 | 32 | 43 | 53 | 64 | 78 | 87 | 98 | 100 | | BNW |
| JUL 05 | 13:09 | 2 180 | | 13.5 | 105 | K | 18 | 24 | 39 | 57 | 70 | 81 | 89 | 96 | 99 | 100 | | BNW |
| JUL 20 | 09:40 | 2 700 | M | | 97 | R | 25 | 31 | 45 | 61 | 72 | 82 | 87 | 93 | 97 | 100 | | BNW |
| | | | | | 148 | K | 10 | 14 | 25 | 43 | 54 | 66 | 80 | 93 | 99 | 100 | | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

FRASER RIVER NEAR MARGUERITE - STATION NO. 08MC018

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | VERTICAL (m) | DEPTH OF SAMPLE (m) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 31 | 18:38 | 2 810 | 17.0 | 80.0 | 0.10 | 398 | 18 | 22 | 27 | 42 | 61 | 83 | 88 | 100 | | | | |
| | | | | | 1.10 | 461 | 7 | 10 | 19 | 37 | 52 | 72 | 82 | 93 | 100 | | | BNW |
| | | | | | 2.18 | 486 | 4 | 8 | 16 | 28 | 44 | 61 | 81 | 89 | 100 | | | BNW |
| | | | | | 3.83 | 534 | 1 | 4 | 13 | 27 | 41 | 61 | 81 | 89 | 100 | | | BNW |
| | | | | | 4.38 | 522 | 5 | 10 | 15 | 25 | 39 | 59 | 84 | 100 | | | | BNW |
| | | | | | 5.33 | 517 | 15 | 16 | 21 | 31 | 43 | 61 | 85 | 88 | 100 | | | BNW |
| | | | | | 5.49 | | STREAMBED | | | | | | | | | | | BNW |
| | | | | 110.0 | 0.10 | 432 | 18 | 20 | 28 | 47 | 68 | 83 | 95 | 100 | | | | |
| | | | | | 0.88 | 438 | 14 | 19 | 31 | 45 | 63 | 84 | 98 | 100 | | | | BNW |
| | | | | | 1.77 | 464 | 25 | 27 | 33 | 47 | 66 | 83 | 95 | 99 | 100 | | | BNW |
| | | | | | 2.85 | 507 | 20 | 25 | 34 | 48 | 66 | 78 | 92 | 99 | 100 | | | BNW |
| | | | | | 3.54 | 508 | 14 | 15 | 19 | 36 | 50 | 68 | 86 | 100 | | | | BNW |
| | | | | | 4.29 | 530 | 19 | 21 | 28 | 38 | 52 | 67 | 82 | 93 | 98 | 100 | | BNW |
| | | | | | 4.42 | | STREAMBED | | | | | | | | | | | BNW |
| | | | | 140.0 | 0.10 | 408 | 25 | 28 | 31 | 38 | 55 | 72 | 84 | 93 | 98 | 100 | | |
| | | | | | 1.10 | 440 | 1 | 5 | 15 | 27 | 44 | 63 | 78 | 90 | 98 | 100 | | BNW |
| | | | | | 2.18 | 500 | 16 | 21 | 33 | 46 | 67 | 71 | 87 | 95 | 99 | 100 | | BNW |
| | | | | | 3.23 | 542 | 22 | 23 | 31 | 43 | 64 | 67 | 80 | 98 | 100 | | | BNW |
| | | | | | 4.38 | 522 | 15 | 16 | 26 | 36 | 52 | 67 | 79 | 91 | 98 | 100 | | BNW |
| | | | | | 5.33 | 884 | 16 | 19 | 21 | 32 | 43 | 55 | 82 | 85 | 95 | 100 | | BNW |
| | | | | | 5.48 | | STREAMBED | | | | | | | | | | | BNW |
| | | | | 170.0 | 0.10 | 328 | 5 | 14 | 23 | 37 | 55 | 75 | 90 | 98 | 100 | | | |
| | | | | | 1.43 | 461 | 2 | 8 | 12 | 25 | 42 | 63 | 85 | 95 | 99 | 100 | | BNW |
| | | | | | 2.87 | 481 | 2 | 4 | 17 | 27 | 38 | 57 | 83 | 97 | 100 | | | BNW |
| | | | | | 4.30 | 885 | 15 | 20 | 23 | 31 | 42 | 59 | 81 | 94 | 99 | 100 | | BNW |
| | | | | | 5.73 | 1 050 | 3 | 8 | 10 | 18 | 27 | 40 | 67 | 83 | 96 | 100 | | BNW |
| | | | | | 7.01 | 2 010 | 4 | 6 | 8 | 10 | 14 | 18 | 28 | 44 | 79 | 100 | | BNW |
| | | | | | 7.18 | | STREAMBED | | | | | | | | | | | BNW |
| | | | | 200.0 | 0.10 | 427 | 13 | 15 | 25 | 39 | 58 | 78 | 93 | 98 | 100 | | | |
| | | | | | 1.37 | 512 | 8 | 9 | 18 | 34 | 52 | 71 | 88 | 95 | 99 | 100 | | BNW |
| | | | | | 2.98 | 582 | 13 | 18 | 27 | 38 | 51 | 70 | 81 | 95 | 100 | | | BNW |
| | | | | | 4.48 | 885 | 17 | 18 | 28 | 38 | 48 | 65 | 84 | 100 | | | | BNW |
| | | | | | 5.97 | 748 | 15 | 18 | 28 | 37 | 48 | 64 | 83 | 95 | 98 | 100 | | BNW |
| | | | | | 7.32 | 788 | 21 | 23 | 26 | 37 | 48 | 61 | 73 | 83 | 92 | 100 | | BNW |
| | | | | | 7.47 | | STREAMBED | | | | | | | | | | | BNW |

BRITISH COLUMBIA

KOOTENAY RIVER AT NICKS ISLAND - STATION NO. 08NN139

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | 1 |
| 2 | | | | | | | 3 S | | | | 13 S | | 2 |
| 3 | | | 4 S | | | | | | | | | | 3 |
| 4 | | | | | | | 3 S | | | | | | 4 |
| 5 | | | | | | | | | | | 9 S | | 5 |
| 6 | | | | | | | | | | | | | 6 |
| 7 | | | 7 S | | | | 4 S | | | | 6 S | | 7 |
| 8 | | | | | | | | | | | | | 8 |
| 9 | | | | | | | 8 S | | | | 17 S | | 9 |
| 10 | | | 10 S | | | | | | | | | | 10 |
| 11 | | | | | | | 8 S | | | | 24 S | | 11 |
| 12 | | | | | | | | | | | | | 12 |
| 13 | | | 6 S | | | | | | | | | | 13 |
| 14 | | | | | | | 5 S | | | | 14 S | | 14 |
| 15 | | | 4 S | | | | | | | | | | 15 |
| 16 | | | | | | | 11 S | | | | 10 S | | 16 |
| 17 | | | 4 S | | | | | | | | | | 17 |
| 18 | | | | | | | 6 S | | | | 11 S | | 18 |
| 19 | | | 8 S | | | | | | | | | | 19 |
| 20 | | | | | | | | | | | | | 20 |
| 21 | | | 7 S | | | | 4 S | | | | 6 S | | 21 |
| 22 | | | | | | | | | | | | | 22 |
| 23 | | | | | | | 8 S | | | | 19 S | | 23 |
| 24 | | | 4 S | | | | | | | | | | 24 |
| 25 | | | | | | | 9 S | | | | 8 S | | 25 |
| 26 | | | 4 S | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | 27 |
| 28 | | | 5 S | | | | 7 S | | | | 13 S | | 28 |
| 29 | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | 22 S | | 30 |
| 31 | | | 2 S | | | | | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 11 S | | | | | | | | 12 S | | 1 |
| 2 | | | | | | | 15 S | | | | 13 S | | 2 |
| 3 | | | | | | | | | | | 7 S | | 3 |
| 4 | | | 17 S | | | | 11 S | | | | 43 S | | 4 |
| 5 | | | | | | | | | | | 45 S | | 5 |
| 6 | | | 10 S | | | | 20 S | | | | 8 S | | 6 |
| 7 | | | | | | | | | | | 4 S | | 7 |
| 8 | | | 15 S | | | | | | | | 20 S | | 8 |
| 9 | | | | | | | 11 S | | | | 25 S | | 9 |
| 10 | | | | | | | 22 S | | | | 9 S | | 10 |
| 11 | | | 14 S | | | | 11 S | | | | 12 S | | 11 |
| 12 | | | | | | | 11 S | | | | 8 S | | 12 |
| 13 | | | 6 S | | | | 9 S | | | | 5 S | | 13 |
| 14 | | | | | | | 8 S | | | | 20 S | | 14 |
| 15 | | | 2 S | | | | 11 S | | | | 1 S | | 15 |
| 16 | | | | | | | 8 S | | | | 1 S | | 16 |
| 17 | | | | | | | 12 S | | | | 2 S | | 17 |
| 18 | | | 12 S | | | | 16 S | | | | 1 S | | 18 |
| 19 | | | | | | | 21 S | | | | 2 S | | 19 |
| 20 | | | 88 S | | | | 13 S | | | | 8 S | | 20 |
| 21 | | | | | | | 21 S | | | | 3 S | | 21 |
| 22 | | | 14 S | | | | 13 S | | | | | | 22 |
| 23 | | | | | | | 16 S | | | | 10 S | | 23 |
| 24 | | | | | | | 31 S | | | | 4 S | | 24 |
| 25 | | | 73 S | | | | 16 S | | | | 8 S | | 25 |
| 26 | | | | | | | 91 S | | | | 3 S | | 26 |
| 27 | | | 28 S | | | | 16 S | | | | 13 S | | 27 |
| 28 | | | | | | | 19 S | | | | 12 S | | 28 |
| 29 | | | 11 S | | | | 23 S | | | | 8 S | | 29 |
| 30 | | | | | | | 11 S | | | | 4 S | | 30 |
| 31 | | | | | | | 16 S | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

KOOTENAY RIVER AT NICKS ISLAND - STATION NO. 08NN120

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5 S | | | | | | | | | | 1 |
| 2 | | | 5 S | | | | 3 S | | | | | | 2 |
| 3 | | | 5 S | | | | | | | | | | 3 |
| 4 | | | 45 S | | | | 2 S | | | | 3 S | | 4 |
| 5 | | | 4 S | | | | | | | | | | 5 |
| 6 | | | 5 S | | | | | | | | | | 6 |
| 7 | | | 2 S | | | | 15 S | | | | 2 S | | 7 |
| 8 | | | 5 S | | | | 5 S | | | | | | 8 |
| 9 | | | 5 S | | | | | | | | | | 9 |
| 10 | | | 5 S | | | | 15 S | | | | | | 10 |
| 11 | | | 23 S | | | | | | | | | | 11 |
| 12 | | | 23 S | | | | 2 S | | | | 5 S | | 12 |
| 13 | | | 31 S | | | | | | | | | | 13 |
| 14 | | | 2 S | | | | | | | | 5 S | | 14 |
| 15 | | | 4 S | | | | 1 S | | | | | | 15 |
| 16 | | | 22 S | | | | | | | | 5 S | | 16 |
| 17 | | | 51 S | | | | 4 S | | | | | | 17 |
| 18 | | | 3 S | | | | | | | | | | 18 |
| 19 | | | 10 S | | | | 5 S | | | | 7 S | | 19 |
| 20 | | | 10 S | | | | | | | | | | 20 |
| 21 | | | 15 S | | | | | | | | 4 S | | 21 |
| 22 | | | 16 S | | | | 9 S | | | | | | 22 |
| 23 | | | 6 S | | | | | | | | 4 S | | 23 |
| 24 | | | 5 S | | | | 5 S | | | | | | 24 |
| 25 | | | 7 S | | | | | | | | | | 25 |
| 26 | | | 2 S | | | | 2 S | | | | 10 S | | 26 |
| 27 | | | 5 S | | | | | | | | | | 27 |
| 28 | | | 17 S | | | | | | | | 3 S | | 28 |
| 29 | | | 34 S | | | | 7 S | | | | | | 29 |
| 30 | | | 10 S | | | | | | | | 2 S | | 30 |
| 31 | | | 6 S | | | | 6 S | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | 0 S | | | | | | 1 |
| 2 | | | | | | | | | | | 9 S | | 2 |
| 3 | | | 4 S | | | | 17 S | | | | | | 3 |
| 4 | | | | | | | | | | | 6 S | | 4 |
| 5 | | | 1 S | | | | 2 S | | | | | | 5 |
| 6 | | | | | | | | | | | 2 S | | 6 |
| 7 | | | | | | | 1 S | | | | | | 7 |
| 8 | | | 0 S | | | | | | | | 1 S | | 8 |
| 9 | | | | | | | | | | | | | 9 |
| 10 | | | | | | | | | | | | | 10 |
| 11 | | | 3 S | | | | 3 S | | | | | | 11 |
| 12 | | | | | | | | | | | 1 S | | 12 |
| 13 | | | 3 S | | | | | | | | | | 13 |
| 14 | | | | | | | 21 S | | | | | | 14 |
| 15 | | | | | | | | | | | 1 S | | 15 |
| 16 | | | | | | | 5 S | | | | | | 16 |
| 17 | | | | | | | | | | | | | 17 |
| 18 | | | 3 S | | | | 7 S | | | | | | 18 |
| 19 | | | | | | | | | | | 1 S | | 19 |
| 20 | | | | | | | | | | | | | 20 |
| 21 | | | 4 S | | | | 6 S | | | | 1 S | | 21 |
| 22 | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | 23 |
| 24 | | | 3 S | | | | | | | | | | 24 |
| 25 | | | | | | | 7 S | | | | | | 25 |
| 26 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | 10 S | | | | 2 S | | 27 |
| 28 | | | 3 S | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | 5 S | | 29 |
| 30 | | | | | | | 6 S | | | | | | 30 |
| 31 | | | | | | | | | | | 17 S | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 07 02 N
LONG 116 34 30 W

REGULATED FLOW SINCE 1973

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - WATER LEVEL STATION. INSTANTANEOUS SAMPLE VALUES ONLY 1978 AND AFTER.

BRITISH COLUMBIA

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB006

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12.7 B | | | | 9.75 B | | | | 8.80 B | | | 1 |
| 2 | | 12.8 B | | | | 9.25 B | | | | 8.35 B | | | 2 |
| 3 | | 13.1 B | | | | 8.75 B | | | | 8.05 B | | | 3 |
| 4 | | 12.8 B | | | | 8.30 B | | | | 8.20 B | | | 4 |
| 5 | | 12.7 B | | | | 8.33 B | | | | 8.00 B | | | 5 |
| 6 | | 12.0 B | | | | 8.72 B | | | | 8.30 B | | | 6 |
| 7 | | 12.1 B | | | | 8.70 B | | | | 8.04 B | | | 7 |
| 8 | | 11.8 B | | | | 8.35 B | | | | 8.30 B | | | 8 |
| 9 | | 11.3 B | | | | 8.10 B | | | | 9.00 B | | | 9 |
| 10 | | 10.4 B | | | | 8.05 B | | | | 8.90 B | | | 10 |
| 11 | | 10.8 B | | | | 8.90 B | | | 10.0 | B | | | 11 |
| 12 | | 11.8 B | | | | 9.15 B | | | | 9.70 B | | | 12 |
| 13 | | 11.2 B | | | | 9.20 B | | | | 9.42 B | | | 13 |
| 14 | | 11.1 B | | | | 8.80 B | | | | 9.55 B | | | 14 |
| 15 | | 11.2 B | | | | 8.25 B | | | | 9.70 B | | | 15 |
| 16 | | 10.4 B | | | | 7.95 B | | | | 9.20 B | | | 16 |
| 17 | | 10.3 B | | | | 7.88 B | | | | 8.75 B | | | 17 |
| 18 | | 10.3 B | | | | 8.27 B | | | | 8.65 B | | | 18 |
| 19 | | 10.7 B | | | | 9.20 B | | | | 8.35 B | | | 19 |
| 20 | | 10.8 B | | | | 9.24 B | | | | 8.20 B | | | 20 |
| 21 | | 10.0 B | | | | 9.10 B | | | | 8.03 B | | | 21 |
| 22 | | 8.80 B | | | | 8.45 B | | | | 8.42 B | | | 22 |
| 23 | | 8.41 B | | | 10.0 | B | | | | 8.50 B | | | 23 |
| 24 | | 8.15 B | | | 10.0 | B | | | | 8.80 B | | | 24 |
| 25 | | 8.15 B | | | | 8.65 B | | | | 9.10 B | | | 25 |
| 26 | | 8.20 B | | | | 8.55 B | | | | 9.25 B | | | 26 |
| 27 | | 8.40 B | | | | 8.42 B | | | | 8.88 B | | | 27 |
| 28 | | 9.00 B | | | | 8.56 B | | | | 8.70 B | | | 28 |
| 29 | | 9.10 B | | | | | | | | 8.88 B | | | 29 |
| 30 | | 9.10 B | | | | | | | | 8.99 B | | | 30 |
| 31 | | 8.90 B | | | | | | | | 9.16 B | | | 31 |
| TOTAL | | 327.21 | | | | 246.87 | | | | 272.30 | | | TOTAL |
| MEAN | | 10.6 | | | | 8.82 | | | | 8.78 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 9.82 B | | | | 71.2 | 17 | 105 | 9.0 | 246 A | 81 S | 1 720 | 1 |
| 2 | | 10.1 B | | | | 68.3 | 17 | 102 | | 189 | 54 | 828 | 2 |
| 3 | | 10.3 B | | | | 70.0 | 17 | 103 | | 161 | 43 | 561 | 3 |
| 4 | | 10.0 B | | | 7.0 | 73.8 | 17 S | 108 | | 124 | 32 | 343 | 4 |
| 5 | | 10.2 B | | | | 78.6 | 17 | 115 | | 108 | 23 | 215 | 5 |
| 6 | | 10.7 B | | | | 82.0 | 18 | 128 | 9.0 | 118 | 19 S | 190 | 6 |
| 7 | | 10.5 B | | | | 84.5 | 19 | 135 | | 150 | 20 | 259 | 7 |
| 8 | | 9.70 B | | | | 106 | 23 | 211 | 10.0 | 133 | 14 S | 161 | 8 |
| 9 | | 9.20 B | | | | 103 | 23 | 205 | | 136 | 12 | 141 | 9 |
| 10 | | 9.30 B | | | 8.0 | 88.8 | 18 S | 147 | | 181 | 17 | 170 | 10 |
| 11 | | 9.70 B | | | | 81.2 | 17 | 118 | | 184 | 15 | 200 | 11 |
| 12 | | 10.8 B | | | | 78.5 | 16 | 109 | | 131 | 14 | 155 | 12 |
| 13 | | 12.0 B | | | 8.0 | 83.2 | 16 S | 115 | 11.0 | 118 | 9 S | 90.2 | 13 |
| 14 | | 14.0 B | | | | 84.1 | 16 | 116 | | 111 | 7 | 67.1 | 14 |
| 15 | | 17.7 B | | | | 78.7 | 16 | 110 | 10.0 | 107 | 7 S | 64.7 | 15 |
| 16 | | 21.8 B | | | | 88.7 | 16 | 125 | | 108 | 7 | 65.9 | 16 |
| 17 | | 25.0 B | | | 7.0 | 107 | 36 S | 351 | | 108 | 7 | 64.1 | 17 |
| 18 | | 28.6 | 7 | 17.9 | | 112 | 34 | 328 | | 105 | 7 | 63.5 | 18 |
| 19 | | 37.1 | 8 | 25.5 | 8.0 | 108 | 28 S | 255 | | 104 | 8 | 80.9 | 19 |
| 20 | | 42.8 | 8 | 28.8 | | 122 | 32 | 337 | 8.0 | 188 | 86 S | 785 | 20 |
| 21 | | 50.4 | 9 | 38.2 | | 202 | 68 | 1 180 | | 147 | 41 | 521 | 21 |
| 22 | | 60.8 | 10 | 52.5 | | 181 | 68 | 1 080 | 11.0 | 128 | 18 S | 199 | 22 |
| 23 | | 84.8 | 11 | 81.7 | | 174 | 69 | 887 | | 117 | 11 | 111 | 23 |
| 24 | | 73.2 | 13 | 82.2 | 7.0 | 171 | 64 S | 795 | | 131 | 21 | 238 | 24 |
| 25 | | 80.3 | 16 | 111 | | 176 | 61 | 771 | | 213 | 95 | 1 760 | 25 |
| 26 | | 77.1 | 15 | 107 | 8.0 | 183 | 52 S | 822 | | 173 | 46 | 688 | 26 |
| 27 | | 70.8 | 15 | 87.8 | | 158 | 46 | 626 | 11.0 | 136 | 29 S | 341 | 27 |
| 28 | | 89.0 | 15 | 89.4 | | 158 | 49 | 669 | | 118 | 21 | 214 | 28 |
| 29 | | 72.7 | 16 | 101 | | 186 | 77 | 1 300 | | 110 | 17 | 182 | 29 |
| 30 | | 74.4 | 17 | 109 | 10.0 | 248 | 148 S | 3 130 | | 122 | 18 | 200 | 30 |
| 31 | | | | | | 287 A | 180 | 4 150 | | | | | 31 |
| TOTAL | | 1 013.82 | | | | 3 887.7 | | 15 782 | | 4 108 | | 10 721.4 | TOTAL |
| MEAN | | 35.8 | | | | 125 | | 805 | | 137 | | 357 | MEAN |

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB005

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 121 | 19 | 199 | | 67.6 | 6 | 35.1 | | 32.4 | 2 | 5.80 | 1 |
| 2 | | 113 | 15 | 146 | | 65.3 | 6 | 33.9 | | 31.7 | 2 | 5.48 | 2 |
| 3 | | 120 | 13 | 135 | | 63.9 | 6 | 33.1 | | 37.6 | 8 | 18.5 | 3 |
| 4 | | 118 | 12 | 122 | | 61.8 | 6 | 32.0 | | 58.6 | 18 | 91.1 | 4 |
| 5 | | 111 | 11 | 105 | 10.0 | 56.7 | 6 S | 28.9 | | 60.2 | 15 | 78.0 | 5 |
| 6 | | 102 | 11 | 96.9 | | 51.4 | 6 | 25.6 | | 53.5 | 8 | 38.3 | 6 |
| 7 | | 117 | 17 | 172 | | 50.0 | 6 | 25.9 | | 57.6 | 9 | 44.8 | 7 |
| 8 | | 123 | 20 | 213 | | 48.1 | 6 | 24.9 | | 60.9 | 11 | 57.8 | 8 |
| 9 | | 108 | 14 | 131 | | 48.4 | 6 | 24.1 | | 53.5 | 8 | 37.0 | 9 |
| 10 | | 96.5 | 10 | 83.4 | | 48.9 | 6 | 24.3 | | 47.3 | 8 | 24.5 | 10 |
| 11 | | 85.7 | 8 | 66.1 | | 48.4 | 6 | 25.6 | | 41.8 | 5 | 18.1 | 11 |
| 12 | | 133 | 20 | 230 | | 50.4 | 6 | 26.1 | | 38.7 | 4 | 13.4 | 12 |
| 13 | | 138 | 20 | 238 | | 45.5 | 5 | 19.7 | | 36.8 | 3 | 9.49 | 13 |
| 14 | | 134 | 14 | 162 | | 41.5 | 5 | 17.8 | | 40.5 | 6 | 21.0 | 14 |
| 15 | | 160 | 12 | 166 | | 40.6 | 5 | 17.5 | 5.5 | 48.6 | 15 S | 63.0 | 15 |
| 16 | | 200 | 42 | 726 | | 37.9 | 4 | 13.1 | | 46.3 | 12 | 50.1 | 16 |
| 17 | | 203 | 54 | 947 | | 43.7 | 7 | 26.4 | | 48.7 | 11 | 47.2 | 17 |
| 18 | 10.0 | 173 | 38 S | 566 | | 62.3 | 13 | 70.0 | | 48.4 | 10 | 40.1 | 18 |
| 19 | | 147 | 23 | 292 | | 55.1 | 7 | 33.3 | | 41.7 | 9 | 32.4 | 19 |
| 20 | | 132 | 13 | 148 | | 46.1 | 4 | 15.9 | | 38.8 | 8 | 26.7 | 20 |
| 21 | | 126 | 8 | 87.1 | | 40.2 | 3 | 10.4 | | 38.8 | 7 | 22.3 | 21 |
| 22 | | 122 | 8 | 83.2 | | 38.8 | 2 | 6.36 | | 38.2 | 7 | 21.8 | 22 |
| 23 | | 110 | 8 | 87.0 | 9.0 | 38.8 | 2 S | 6.19 | | 38.1 | 7 | 21.6 | 23 |
| 24 | | 97.7 | 7 | 88.1 | | 34.9 | 2 | 6.03 | | 38.5 | 7 | 22.1 | 24 |
| 25 | | 92.0 | 7 | 85.6 | | 33.8 | 2 | 5.81 | | 38.9 | 6 | 19.1 | 25 |
| 26 | | 88.9 | 7 | 84.4 | | 31.9 | 2 | 5.51 | | 37.3 | 8 | 25.6 | 26 |
| 27 | | 89.8 | 8 | 46.4 | | 31.2 | 2 | 5.38 | | 58.7 | 14 | 72.3 | 27 |
| 28 | | 81.1 | 8 | 42.0 | | 30.6 | 2 | 5.29 | | 58.2 | 9 | 45.3 | 28 |
| 29 | | 77.8 | 8 | 40.2 | | 31.9 | 2 | 5.51 | | 50.0 | 7 | 30.2 | 29 |
| 30 | | 73.4 | 8 | 38.1 | | 33.8 | 2 | 5.84 | | 44.4 | 6 | 23.0 | 30 |
| 31 | | 68.9 | 8 | 35.7 | | 32.7 | 2 | 5.65 | | | | | 31 |
| TOTAL | | 3 673.4 | | 5 925 2 | | 1 403.1 | | 622.26 | | 1 355.3 | | 1 025.37 | TOTAL |
| MEAN | | 118 | | 178 | | 45.3 | | 20.1 | | 45.2 | | 34.2 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 40.0 | 8 | 20.7 | | 67.3 | | | | 16.2 B | | | 1 |
| 2 | | 37.3 | 6 | 19.3 | | 59.3 | | | | 16.1 B | | | 2 |
| 3 | | 35.4 | 6 | 18.4 | | 56.8 | | | | 16.3 B | | | 3 |
| 4 | | 37.7 | 6 | 19.5 | | 57.3 | | | | 17.0 B | | | 4 |
| 5 | | 38.8 | 7 | 24.1 | | 54.2 | | | | 17.4 B | | | 5 |
| 6 | | 38.0 | 7 | 23.6 | | 49.3 | | | | 16.8 B | | | 6 |
| 7 | | 37.0 | 6 | 18.2 | | 45.7 | | | | 14.8 B | | | 7 |
| 8 | | 34.3 | 6 | 17.8 | | 42.0 | | | | 13.8 B | | | 8 |
| 9 | | 32.2 | 6 | 16.7 | | 38.5 B | | | | 13.3 B | | | 9 |
| 10 | | 31.4 | 6 | 16.3 | | 37.8 B | | | | 13.4 B | | | 10 |
| 11 | | 28.5 | 6 | 15.3 | | 39.0 B | | | | 14.0 B | | | 11 |
| 12 | | 28.0 | 6 | 14.8 | | 41.0 B | | | | 14.7 B | | | 12 |
| 13 | 6.5 | 27.7 | 6 S | 14.4 | | 33.2 B | | | | 14.7 B | | | 13 |
| 14 | | 28.8 | 6 | 15.4 | | 30.0 B | | | | 14.3 B | | | 14 |
| 15 | | 31.5 | 6 | 18.3 | | 28.7 B | | | | 13.4 B | | | 15 |
| 16 | | 30.1 | 6 | 15.8 | | 28.5 B | | | | 12.7 B | | | 16 |
| 17 | | 28.5 | 6 | 14.8 | | 28.4 B | | | | 12.2 B | | | 17 |
| 18 | | 27.7 | 6 | 14.4 | | 28.0 B | | | | 12.1 B | | | 18 |
| 19 | | 27.4 | 6 | 14.2 | | 28.5 B | | | | 12.3 B | | | 19 |
| 20 | | 28.3 | 6 | 14.7 | | 28.3 B | | | | 12.6 B | | | 20 |
| 21 | | 28.9 | 6 | 15.5 | | 24.5 B | | | | 13.0 B | | | 21 |
| 22 | | 32.3 | 10 | 27.9 | | 23.7 B | | | | 12.8 B | | | 22 |
| 23 | | 42.5 | 11 | 40.4 | | 22.3 B | | | | 12.4 B | | | 23 |
| 24 | | 40.5 | 9 | 31.5 | | 20.6 B | | | | 12.1 B | | | 24 |
| 25 | | 37.0 | 8 | 25.6 | | 20.2 B | | | | 12.1 B | | | 25 |
| 26 | | 46.1 | 18 | 78.0 | | 20.2 B | | | | 12.3 B | | | 26 |
| 27 | | 70.4 | 19 | 118 | | 20.5 B | | | | 12.2 B | | | 27 |
| 28 | | 61.1 | 14 | 73.8 | | 20.1 B | | | | 12.0 B | | | 28 |
| 29 | | 52.5 | 9 | 40.8 | | 18.6 B | | | | 12.1 B | | | 29 |
| 30 | | 47.6 | 9 | 36.9 | | 18.6 B | | | | 11.8 B | | | 30 |
| 31 | | 83.9 | 17 | 93.9 | | | | | | 11.8 B | | | 31 |
| TOTAL | | 1 178.4 | | 926 5 | | 1 025.0 | | | | 422.8 | | | TOTAL |
| MEAN | | 38.0 | | 29.9 | | 34.2 | | | | 13.6 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 03 55 N
LONG 121 01 00 W
DRAINAGE AREA 2 410 $km^2$
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 22.9 B | | | | 14.0 B | | | | 13.1 B | | | 1 |
| 2 | | 23.1 B | | | | 13.5 B | | | | 12.8 B | | | 2 |
| 3 | | 23.0 B | | | | 13.0 B | | | | 12.5 B | | | 3 |
| 4 | | 23.2 B | | | | 12.8 B | | | | 12.5 B | | | 4 |
| 5 | | 23.3 B | | | | 12.8 B | | | | 12.5 B | | | 5 |
| 6 | | 23.1 B | | | | 13.1 B | | | | 12.7 B | | | 6 |
| 7 | | 21.1 B | | | | 13.2 B | | | | 12.5 B | | | 7 |
| 8 | | 18.7 B | | | | 12.8 B | | | | 13.2 B | | | 8 |
| 9 | | 18.5 B | | | | 12.6 B | | | | 14.0 B | | | 9 |
| 10 | | 18.0 B | | | | 12.7 B | | | | 14.8 B | | | 10 |
| 11 | | 18.1 B | | | | 13.5 B | | | | 15.2 B | | | 11 |
| 12 | | 18.8 B | | | | 13.8 B | | | | 14.8 B | | | 12 |
| 13 | | 18.3 B | | | | 14.0 B | | | | 14.4 B | | | 13 |
| 14 | | 17.5 B | | | | 13.1 B | | | | 14.5 B | | | 14 |
| 15 | | 17.6 B | | | | 12.4 B | | | | 14.8 B | | | 15 |
| 16 | | 17.0 B | | | | 13.1 B | | | | 14.1 B | | | 16 |
| 17 | | 16.8 B | | | | 13.2 B | | | | 13.3 B | | | 17 |
| 18 | | 16.8 B | | | | 13.3 B | | | | 13.0 B | | | 18 |
| 19 | | 17.2 B | | | | 14.1 B | | | | 13.8 B | | | 19 |
| 20 | | 17.2 B | | | | 13.8 B | | | | 13.8 B | | | 20 |
| 21 | | 15.6 B | | | | 13.8 B | | | | 12.9 B | | | 21 |
| 22 | | 14.2 B | | | | 14.0 B | | | | 13.2 B | | | 22 |
| 23 | | 12.0 B | | | | 14.9 B | | | | 13.3 B | | | 23 |
| 24 | | 13.6 B | | | | 15.1 B | | | | 13.2 B | | | 24 |
| 25 | | 13.7 B | | | | 14.8 B | | | | 13.5 B | | | 25 |
| 26 | | 12.8 B | | | | 13.3 B | | | | 13.7 B | | | 26 |
| 27 | | 13.3 B | | | | 12.9 B | | | | 13.3 B | | | 27 |
| 28 | | 13.8 B | | | | 13 1 B | | | | 13.0 B | | | 28 |
| 29 | | 13.9 B | | | | | | | | 13.1 B | | | 29 |
| 30 | | 14.3 B | | | | | | | | 13.3 B | | | 30 |
| 31 | | 14.9 B | | | | | | | | 13.8 B | | | 31 |
| TOTAL | | 537.9 | | | | 376.2 | | | | 416.4 | | | TOTAL |
| MEAN | | 17.4 | | | | 13.4 | | | | 13.4 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 14.2 B | | | | 185 E | 112 | 1 800 | 12.0 | 384 | 431 S | 14 300 | 1 |
| 2 | | 14.9 B | | | | 169 E | 77 | 1 080 | 10.0 | 341 | 223 S | 6 570 | 2 |
| 3 | | 15.2 B | | | | 166 E | 67 | 815 | | 280 | 188 | 4 020 | 3 |
| 4 | | 15.0 B | | | | 171 E | 57 | 842 | | 233 | 135 | 2 820 | 4 |
| 5 | | 15.0 B | | | | 178 E | 105 | 1 830 | | 206 | 101 | 1 800 | 5 |
| 6 | | 15.0 B | | | | 179 E | 205 | 3 170 | | 190 | 67 | 1 430 | 6 |
| 7 | | 15.3 B | | | | 181 E | 427 | 7 050 | 12.0 | 236 | 61 S | 1 880 | 7 |
| 8 | | 14.8 B | | | | 211 E | 584 | 10 800 | | 235 | 68 | 1 340 | 8 |
| 9 | | 14.0 B | | | 7.0 | 168 A | 382 S | 5 400 | 12.0 | 229 | 48 S | 980 | 9 |
| 10 | | 14.0 B | | | | 172 | 280 | 4 310 | | 241 | 46 | 937 | 10 |
| 11 | | 14.4 B | | | | 155 | 188 | 2 520 | | 262 | 83 | 1 370 | 11 |
| 12 | | 15.2 B | | | 7.0 | 148 | 123 S | 1 540 | | 236 | 53 | 1 080 | 12 |
| 13 | | 15.7 B | | | | 148 | 91 | 1 150 | | 216 | 40 | 743 | 13 |
| 14 | | 15.5 B | | | | 150 | 76 | 985 | 13.0 | 198 | 28 S | 499 | 14 |
| 15 | | 24 0 B | | | | 141 | 67 | 815 | | 196 | 26 | 421 | 15 |
| 16 | | 30 0 B | | | | 139 | 68 | 817 | 13.0 | 192 | 25 S | 416 | 16 |
| 17 | | 38 0 B | | | | 165 | 117 | 1 670 | | 188 | 26 | 422 | 17 |
| 18 | | 47.0 B | | | 8.0 | 186 | 219 S | 3 500 | | 187 | 24 | 388 | 18 |
| 19 | | 80.0 B | | | | 176 | 177 | 2 680 | | 197 | 24 | 408 | 19 |
| 20 | | 75.0 B | | | 10.0 | 182 | 137 S | 2 150 | | 312 | 293 | 7 900 | 20 |
| 21 | | 100 E | | | | 287 | 223 | 5 140 | 12.0 | 327 | 316 S | 8 980 | 21 |
| 22 | | 130 E | | | | 287 | 283 | 7 020 | | 284 | 152 | 3 730 | 22 |
| 23 | | 130 E | | | | 287 | 238 | 5 480 | 13.0 | 258 | 77 S | 1 720 | 23 |
| 24 | | 149 E | | | | 272 | 208 | 4 890 | | 248 | 58 | 1 810 | 24 |
| 25 | | 188 E | | | 10.0 | 275 | 183 S | 4 350 | | 436 | 432 | 16 000 | 25 |
| 26 | | 152 E | | | | 269 | 168 | 3 850 | | 415 | 421 | 15 100 | 26 |
| 27 | | 148 E | | | 11.0 | 263 | 131 S | 2 880 | | 335 | 244 | 7 080 | 27 |
| 28 | | 148 E | | | | 743 | 147 | 3 080 | 13.0 | 284 | 118 S | 2 900 | 28 |
| 29 | | 161 E | | | | 276 | 256 | 6 100 | | 263 | 66 | 1 440 | 29 |
| 30 | | 182 E | | | 13.0 | 338 | 884 S | 20 000 | | 257 | 72 | 1 840 | 30 |
| 31 | | | | | | 382 | 663 | 29 200 | | | | | 31 |
| TOTAL | | 1 939.2 | | | | 5 826 | | 147 815 | | 7 851 | | 189 672 | TOTAL |
| MEAN | | 66.5 | | | | 211 | | 4 770 | | 262 | | 3 860 | MEAN |

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FD002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 302 | 120 | 3 130 | | 154 | 35 | 466 | | 52.7 | 23 | 105 | 1 |
| 2 | | 289 | 104 | 2 890 | | 148 | 34 | 435 | | 51.2 | 23 | 102 | 2 |
| 3 | | 317 | 106 | 2 980 | | 143 | 32 | 395 | | 50.3 | 23 | 100.0 | 3 |
| 4 | | 317 | 105 | 2 880 | | 138 | 31 | 370 | | 99.8 | 29 | 174 | 4 |
| 5 | | 288 | 79 | 1 970 | | 135 | 31 | 339 | | 93.5 | 39 | 318 | 5 |
| 6 | | 269 | 48 | 1 070 | | 111 | 30 | 288 | | 90.6 | 32 | 250 | 6 |
| 7 | | 287 | 145 | 3 720 | | 104 | 28 | 261 | | 81.3 | 31 | 218 | 7 |
| 8 | | 335 | 268 | 7 470 | | 87.8 | 27 E | 228 | 8.0 | 97.7 | 38 E | 304 | 8 |
| 9 | | 300 | 180 | 4 150 | | 82.3 | 27 | 215 | | 81.2 | 32 | 252 | 9 |
| 10 | | 287 | 101 | 2 330 | | 88.0 | 27 | 205 | | 80.9 | 28 | 195 | 10 |
| 11 | | 244 | 76 | 1 800 | | 87.6 | 27 | 204 | | 71.4 | 27 | 167 | 11 |
| 12 | | 280 | 83 | 2 080 | | 88.3 | 26 | 201 | | 64.0 | 26 | 144 | 12 |
| 13 | | 288 | 118 | 2 940 | | 86.6 | 26 | 194 | | 80.5 | 26 | 138 | 13 |
| 14 | | 387 | 295 | 9 880 | | 77.8 | 26 | 175 | | 58.2 | 26 | 131 | 14 |
| 15 | 7.0 | 592 | 2 800 S | 143 000 | | 72.7 | 26 | 163 | | 89.4 | 30 | 180 | 15 |
| 16 | | 800 | 3 470 | 180 000 | | 68.7 | 26 | 154 | | 78.3 | 32 | 218 | 16 |
| 17 | | 922 | 2 080 | 94 300 | | 64.7 | 25 | 140 | | 61.6 | 29 | 204 | 17 |
| 18 | | 449 | 1 020 | 39 800 | | 64.2 | 31 | 228 | | 78.5 | 25 | 172 | 18 |
| 19 | 13.0 | 272 | 372 S | 12 000 | | 96.9 | 35 | 289 | | 73.6 | 24 | 153 | 19 |
| 20 | | 326 | 142 | 4 000 | | 83.0 | 28 | 201 | | 67.2 | 23 | 134 | 20 |
| 21 | | 317 | 63 | 1 730 | | 70.3 | 25 | 152 | | 62.7 | 22 | 119 | 21 |
| 22 | | 281 | 39 | 881 | | 62.5 | 24 | 130 | | 61.5 | 21 | 112 | 22 |
| 23 | | 264 | 23 | 525 | | 57.4 | 24 | 119 | | 61.7 | 20 | 107 | 23 |
| 24 | | 240 | 19 | 394 | | 55.6 | 23 | 110 | | 62.2 | 19 | 102 | 24 |
| 25 | | 232 | 25 | 501 | | 53.2 | 23 | 105 | | 62.8 | 17 | 92.2 | 25 |
| 26 | | 253 | 50 | 1 090 | | 50.5 | 23 | 100 | | 62.9 | 15 | 81.5 | 26 |
| 27 | | 250 | 48 | 1 040 | | 49.0 | 23 | 97.4 | | 78.1 | 17 | 118 | 27 |
| 28 | | 220 | 38 | 722 | | 47.7 | 23 | 94.8 | | 111 | 24 | 230 | 28 |
| 29 | | 188 | 36 | 650 | | 51.8 | 23 | 103 | | 97.0 | 20 | 168 | 29 |
| 30 | | 182 | 37 | 582 | | 55.0 | 23 | 109 | | 85.5 | 18 | 133 | 30 |
| 31 | | 186 | 36 | 616 | | 54.7 | 23 | 109 | | | | | 31 |
| TOTAL | | 9 834 | | 530 491 | | 2 622.3 | | 5 385.2 | | 2 209.0 | | 4 913.7 | TOTAL |
| MEAN | | 311 | | 17 100 | | 84.6 | | 206 | | 73.8 | | 184 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 76.2 | 17 | 112 | | 121 | 26 | 272 | | 20.8 B | | | 1 |
| 2 | | 69.4 | 16 | 95.9 | | 115 | 22 | 219 | | 20.9 B | | | 2 |
| 3 | | 64.5 | 15 | 83.6 | | 104 | 16 | 144 | | 21.8 B | | | 3 |
| 4 | | 64.4 | 14 | 77.9 | | 103 | 12 | 107 | | 22.4 B | | | 4 |
| 5 | | 70.9 | 16 | 91.9 | | 101 | 11 | 86.0 | | 22.7 B | | | 5 |
| 6 | | 70.2 | 15 | 91.0 | | 94.1 | 10 | 81.3 | | 20.8 B | | | 6 |
| 7 | | 67.2 | 15 | 87.1 | | 87.4 | 9 | 66.0 | | 19.0 B | | | 7 |
| 8 | | 62.8 | 14 | 76.7 | | 80.3 | 9 | 62.4 | | 17.7 B | | | 8 |
| 9 | | 59.2 | 12 | 61.4 | | 73.6 | 8 | 57.2 | | 17.2 B | | | 9 |
| 10 | | 56.8 | 11 | 54.0 | | 67.6 | 9 | 52.6 | | 17.6 B | | | 10 |
| 11 | | 55.5 | 10 | 48.0 | | 61.2 | 9 | 47.6 | | 16.7 B | | | 11 |
| 12 | | 51.9 | 10 | 44.8 | | 60.1 | 9 | 46.7 | | 19.0 B | | | 12 |
| 13 | | 51.4 | 11 | 48.9 | | 55.4 | 9 | 60.9 | | 19.0 B | | | 13 |
| 14 | | 55.2 | 11 | 52.5 | | 60.7 | 9 | 47.2 | | 18.7 B | | | 14 |
| 15 | | 54.8 | 10 | 50.6 | | 56.3 | 8 | 38.9 | | 17.2 B | | | 15 |
| 16 | | 54.8 | 10 | 50.6 | | 53.5 | 8 | 37.0 | | 16.3 B | | | 16 |
| 17 | | 55.5 | 10 | 48.0 | | 52.4 | 8 | 36.2 | | 15.9 B | | | 17 |
| 18 | | 53.1 | 9 | 41.3 | | 51.9 | 7 | 31.4 | | 15.8 B | | | 18 |
| 19 | 2.0 | 51.8 | 9 S | 40.1 | | 48.7 | 7 | 30.1 | | 15.0 B | | | 19 |
| 20 | | 51.2 | 9 | 39.8 | | 47.6 | 7 | 28.8 | | 16.4 B | | | 20 |
| 21 | | 52.8 | 9 | 41.1 | | 44.8 | 7 | 27.1 | | 16.8 B | | | 21 |
| 22 | | 55.1 | 9 | 42.8 | | 38.3 | 7 | 23.2 | | 16.8 B | | | 22 |
| 23 | | 64.1 | 11 | 80.8 | | 30.0 E | 7 | 18.1 | | 15.9 B | | | 23 |
| 24 | | 75.8 | 11 | 71.8 | | 27.2 E | | | | 15.5 B | | | 24 |
| 25 | | 70.6 | 10 | 61.0 | | 25.5 E | | | | 15.5 B | | | 25 |
| 26 | | 68.7 | 10 | 57.6 | | 28.1 E | | | | 15.0 B | | | 26 |
| 27 | | 108 | 24 | 226 | | 28.7 E | | | | 15.9 B | | | 27 |
| 28 | | 122 | 31 | 327 | | 28.6 E | | | | 15.8 B | | | 28 |
| 29 | | 104 | 24 | 218 | | 24.8 E | | | | 15.7 B | | | 29 |
| 30 | | 80.6 | 18 | 141 | | 21.5 E | | | | 13.4 B | | | 30 |
| 31 | | 80.9 | 16 | 139 | | | | | | 15.2 B | | | 31 |
| TOTAL | | 2 106.0 | | 2 686.8 | | 1 787.7 | | | | 648.6 | | | TOTAL |
| MEAN | | 67.9 | | 89.0 | | 59.9 | | | | 17.7 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 34 15 N
LONG 131 11 19 W
DRAINAGE AREA 5 030 $km^2$
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 09 | 15:35 | 190 | 7.0 | 425 R | 20 | 27 | 40 | 54 | 67 | 81 | 92 | 98 | 100 | | | BNW |
| MAY 18 | 12:50 | 185 H | 9.0 | 254 K | 15 | 23 | 32 | 45 | 61 | 80 | 97 | 100 | | | | BNW |
| MAY 27 | 12:05 | 263 H | 11.0 | 138 K | 25 | 30 | 37 | 49 | 60 | 73 | 85 | 94 | 98 | 100 | | BNW |
| MAY 30 | 15:25 | 388 | 13.0 | 769 R | 7 | 12 | 21 | 34 | 50 | 70 | 90 | 98 | 100 | | | BNW |
| JUN 01 | 15:50 | 384 H | 12.0 | 367 K | 15 | 19 | 29 | 42 | 58 | 71 | 85 | 98 | 100 | | | BNW |
| JUN 02 | 12:22 | 341 H | 10.0 | 224 K | 11 | 16 | 27 | 43 | 58 | 73 | 84 | 91 | 98 | 100 | | BNW |
| JUN 21 | 14:34 | 327 H | 12.0 | 299 K | 17 | 22 | 39 | 55 | 68 | 80 | 90 | 94 | 97 | 100 | | BNW |
| JUL 15 | 17:30 | 502 H | 7.0 | 4 230 K | 14 | 21 | 32 | 49 | 62 | 82 | 95 | 99 | 100 | | | BNW |
| JUL 19 | 13:07 | 351 | 13.0 | 322 R | 10 | 17 | 27 | 43 | 60 | 78 | 92 | 98 | 100 | | | BNW |

H - DAILY MEAN DISCHARGE  K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL  R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10ED001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 31.7 E | | | | 20.0 E | | | | 18.0 E | | | 1 |
| 2 | | 30.3 E | | | | 20.2 E | | | | 18.1 E | | | 2 |
| 3 | | 28.9 E | | | | 20.3 E | | | | 18.3 E | | | 3 |
| 4 | | 27.0 E | | | | 20.1 E | | | | 18.4 E | | | 4 |
| 5 | | 26.0 E | | | | 19.9 E | | | | 18.4 E | | | 5 |
| 6 | | 24.0 E | | | | 19.9 E | | | | 17.9 E | | | 6 |
| 7 | | 23.9 E | | | | 20.0 E | | | | 18.0 E | | | 7 |
| 8 | | 23.1 E | | | | 19.8 E | | | | 18.3 E | | | 8 |
| 9 | | 22.4 E | | | | 19.7 E | | | | 19.1 E | | | 9 |
| 10 | | 22.0 E | | | | 19.9 E | | | | 20.2 E | | | 10 |
| 11 | | 21.2 E | | | | 19.6 E | | | | 19.5 E | | | 11 |
| 12 | | 21.0 E | | | | 19.2 E | | | | 19.0 E | | | 12 |
| 13 | | 21.2 E | | | | 19.0 E | | | | 18.7 E | | | 13 |
| 14 | | 21.4 E | | | | 19.1 E | | | | 18.6 E | | | 14 |
| 15 | | 21.4 E | | | | 19.0 E | | | | 19.1 E | | | 15 |
| 16 | | 21.6 E | | | | 18.3 E | | | | 19.7 E | | | 16 |
| 17 | | 22.1 E | | | | 17.9 E | | | | 20.0 E | | | 17 |
| 18 | | 22.4 E | | | | 18.0 E | | | | 19.6 E | | | 18 |
| 19 | | 22.6 E | | | | 18.0 E | | | | 18.9 E | | | 19 |
| 20 | | 22.9 E | | | | 18.7 E | | | | 18.7 E | | | 20 |
| 21 | | 22.7 E | | | | 19.0 E | | | | 18.5 E | | | 21 |
| 22 | | 21.3 E | | | | 18.4 E | | | | 17.9 E | | | 22 |
| 23 | | 20.2 E | | | | 18.7 E | | | | 17.7 E | | | 23 |
| 24 | | 19.9 E | | | | 19.1 E | | | | 17.5 E | | | 24 |
| 25 | | 19.8 E | | | | 19.1 E | | | | 17.4 E | | | 25 |
| 26 | | 19.9 E | | | | 18.3 E | | | | 17.3 E | | | 26 |
| 27 | | 20.2 E | | | | 17.8 E | | | | 17.2 E | | | 27 |
| 28 | | 20.3 E | | | | 18.2 E | | | | 17.1 E | | | 28 |
| 29 | | 20.3 E | | | | | | | | 17.2 E | | | 29 |
| 30 | | 19.9 E | | | | | | | | 17.7 E | | | 30 |
| 31 | | 19.7 E | | | | | | | | 18.2 E | | | 31 |
| TOTAL | | 699.7 | | | | 535.4 | | | | 570.4 | | | TOTAL |
| MEAN | | 22.6 | | | | 19.1 | | | | 18.4 | | | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 18.9 E | | | | 247 | 488 | 10 400 | | 435 | 1 830 E | 88 800 | 1 |
| 2 | | 18.8 E | | | | 206 | 296 | 5 270 | | 478 | 2 040 | 84 400 | 2 |
| 3 | | 18.6 E | | | 6.0 | 181 | 213 E | 3 330 | | 435 | 1 380 | 51 900 | 3 |
| 4 | | 18.9 E | | | | 171 | 307 | 3 060 | | 371 | 836 E | 30 000 | 4 |
| 5 | | 19.1 E | | | 5.0 | 160 | 179 E | 2 470 | | 325 | 589 | 16 800 | 5 |
| 6 | | 18.8 E | | | | 144 | 135 | 1 880 | | 323 | 387 E | 10 200 | 6 |
| 7 | | 17.9 E | | | | 145 | 152 | 1 900 | | 295 | 229 | 5 840 | 7 |
| 8 | | 17.3 E | | | | 278 | 573 | 13 600 | | 265 | 168 | 3 870 | 8 |
| 9 | | 17.2 E | | | 3.5 | 451 | 1 740 E | 67 800 | | 264 | 178 E | 4 080 | 9 |
| 10 | | 17.2 E | | | | 448 | 1 400 | 54 200 | | 316 | 378 | 10 300 | 10 |
| 11 | | 18.2 E | | | 6.0 | 416 | 826 E | 29 700 | | 408 | 1 030 | 36 100 | 11 |
| 12 | | 19.9 E | | | | 380 | 593 | 18 600 | | 556 | 2 140 | 103 000 | 12 |
| 13 | | 22.1 E | | | | 334 | 455 E | 13 100 | 12.0 | 577 | 1 310 E | 85 300 | 13 |
| 14 | | 27.0 E | | | | 288 | 380 | 9 440 | | 531 | 868 | 30 800 | 14 |
| 15 | | 31.0 E | | | | 267 | 343 | 7 910 | | 491 | 604 E | 25 800 | 15 |
| 16 | | 33.0 E | | | | 258 | 312 E | 6 950 | | 474 | 537 | 22 000 | 16 |
| 17 | | 36.6 E | | | | 257 | 325 E | 7 220 | | 470 | 472 | 19 200 | 17 |
| 18 | | 50.0 E | | | | 251 | 310 | 6 720 | | 438 | 445 | 16 800 | 18 |
| 19 | | 68.0 E | | | | 230 | 280 | 5 780 | | 858 | 1 520 | 113 000 | 19 |
| 20 | | 95.0 E | | | | 209 | 270 E | 4 880 | | 1 880 | 7 070 E | 1 150 000 | 20 |
| 21 | | 132 E | | | | 201 | 241 | 4 150 | | 1 430 | 3 890 | 466 000 | 21 |
| 22 | | 181 E | | | | 198 | 213 | 3 840 | | 1 000 | 2 420 E | 208 000 | 22 |
| 23 | | 270 E | | | | 189 | 185 E | 3 020 | | 630 | 1 700 | 122 000 | 23 |
| 24 | | 370 E | | | | 181 | 183 | 2 550 | | 753 | 1 220 E | 79 400 | 24 |
| 25 | | 420 E | | | | 180 | 159 | 2 470 | | 697 | 984 | 59 300 | 25 |
| 26 | | 400 E | | | | 175 | 183 | 3 330 | | 851 | 843 | 67 400 | 26 |
| 27 | | 345 | | | | 169 | 147 E | 2 150 | | 608 | 697 E | 36 100 | 27 |
| 28 | | 307 | | | | 155 | 142 | 1 950 | | 550 | 626 | 29 700 | 28 |
| 29 | | 293 | | | | 155 | 137 | 1 830 | | 512 | 594 E | 25 300 | 29 |
| 30 | | 280 | | | | 179 | 241 E | 3 730 | | 490 | 475 | 20 100 | 30 |
| 31 | | | | | | 300 | 326 | 24 000 | | | | | 31 |
| TOTAL | | 3 581 E | | | | 7 405 | | 326 870 | | 17 712 | | 2 953 890 | TOTAL |
| MEAN | | 119 | | | | 239 | | 10 500 | | 590 | | 95 300 | MEAN |

BRITISH COLUMBIA

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10CD001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 481 | 385 S | 15 400 | | 701 | 702 | 42 500 | | 238 | 75 | 1 540 | 1 |
| 2 | | 547 | 681 | 32 200 | 11.0 | 650 | 566 S | 31 900 | | 235 | 70 | 1 420 | 2 |
| 3 | | 737 | 1 880 | 120 000 | | 510 | 518 | 27 200 | | 223 | 70 | 1 350 | 3 |
| 4 | | 788 | 1 900 S | 131 000 | 15.0 | 578 | 478 S | 23 700 | | 217 | 83 | 1 560 | 4 |
| 5 | | 708 | 1 380 | 84 800 | | 531 | 370 | 17 000 | | 341 | 130 | 2 710 | 5 |
| 6 | | 724 | 887 S | 82 400 | 15.0 | 476 | 303 S | 12 500 | | 241 | 150 | 3 120 | 6 |
| 7 | | 565 | 712 | 41 000 | | 433 | 274 | 10 300 | 8.0 | 287 | 212 S | 4 890 | 7 |
| 8 | | 507 | 505 S | 28 600 | 16.0 | 387 | 255 S | 8 750 | | 281 | 210 | 5 280 | 8 |
| 9 | | 567 | 412 | 20 200 | | 386 | 235 | 7 430 | | 288 | 158 | 3 590 | 9 |
| 10 | | 512 | 372 | 16 500 | 17.0 | 348 | 212 S | 6 320 | | 262 | 132 | 2 780 | 10 |
| 11 | | 483 | 333 S | 13 300 | | 334 | 195 | 5 570 | | 222 | 117 | 2 240 | 11 |
| 12 | | 418 | 288 | 10 400 | 15.0 | 348 | 187 S | 5 590 | | 206 | 108 | 1 890 | 12 |
| 13 | | 385 | 244 S | 8 250 | | 380 | 235 | 7 310 | | 194 | 95 | 1 590 | 13 |
| 14 | | 354 | 233 | 7 130 | | 337 | 227 | 6 610 | | 188 | 86 | 1 400 | 14 |
| 15 | | 327 | 220 S | 6 220 | | 308 | 198 | 5 220 | | 184 | 77 | 1 220 | 15 |
| 16 | | 306 | 204 | 5 380 | | 288 | 157 | 3 810 | | 177 A | 67 | 1 020 | 16 |
| 17 | | 294 | 190 | 4 830 | | 270 | 140 | 3 270 | | 168 E | 58 | 842 | 17 |
| 18 | | 283 | 172 S | 4 350 | 14.0 | 337 | 212 S | 6 170 | 5.0 | 165 A | 53 S | 758 | 18 |
| 19 | | 289 | 158 | 4 110 | | 381 | 382 | 13 200 | | 160 | 52 | 719 | 19 |
| 20 | | 323 | 200 S | 5 580 | | 365 | 312 | 9 870 | | 152 | 50 | 657 | 20 |
| 21 | | 336 | 207 | 6 050 | | 355 | 248 | 7 610 | | 148 | 48 | 614 | 21 |
| 22 | | 470 | 631 S | 25 600 | | 334 | 203 | 5 880 | | 143 | 46 | 568 | 22 |
| 23 | | 585 | 724 | 34 700 | | 316 | 177 | 4 830 | | 140 | 45 | 544 | 23 |
| 24 | | 504 | 438 | 19 000 | | 310 | 166 | 4 180 | | 139 | 43 | 518 | 24 |
| 25 | | 459 | 315 S | 12 500 | | 309 | 135 | 3 600 | | 138 | 41 | 489 | 25 |
| 26 | | 440 | 236 | 8 900 | | 300 | 118 | 3 010 | 5.0 | 137 A | 39 S | 482 | 26 |
| 27 | | 832 | 985 S | 64 300 | | 288 | 105 | 2 810 | | 136 E | 38 | 447 | 27 |
| 28 | 1 330 | | 4 010 | 461 000 | 15.0 | 272 | 91 S | 2 140 | | 135 E | 37 | 432 | 28 |
| 29 | 1 150 | | 2 770 S | 275 000 | | 259 | 87 | 1 950 | | 133 E | 36 | 414 | 29 |
| 30 | 826 | | 1 490 | 119 000 | | 245 | 84 | 1 800 | | 129 E | 35 | 390 | 30 |
| 31 | 777 | | 972 | 85 300 | | 242 | 80 | 1 670 | | | | | 31 |
| TOTAL | 17 380 | | | 1 701 710 | | 11 857 | | 283 580 | | 5 856 | | 45 430 | TOTAL |
| MEAN | 561 | | | 54 900 | | 376 | | 9 470 | | 188 | | 1 510 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 128 E | 34 | 378 | | 88.0 B | | | | 27.1 B | | | 1 |
| 2 | 1.0 | 127 A | 32 S | 351 | | 87.0 B | | | | 27.5 B | | | 2 |
| 3 | | 126 | 32 | 354 | | 86.0 B | | | | 27.7 B | | | 3 |
| 4 | | 126 | 31 | 343 | | 82.0 B | | | | 27.3 B | | | 4 |
| 5 | | 128 | 31 | 348 | | 80.5 B | | | | 26.7 B | | | 5 |
| 6 | | 128 | 30 | 332 | | 87.5 B | | | | 23.6 B | | | 6 |
| 7 | | 125 | 30 | 324 | | 85.7 B | | | | 21.7 B | | | 7 |
| 8 | | 120 | 29 | 301 | | 84.5 B | | | | 21.0 B | | | 8 |
| 9 | | 118 | 28 | 281 | | 82.0 B | | | | 20.6 B | | | 9 |
| 10 | 2.0 | 111 | 28 S | 269 | | 80.7 B | | | | 20.5 B | | | 10 |
| 11 | | 103 | 26 | 231 | | 80.0 B | | | | 20.6 B | | | 11 |
| 12 | | 106 | 24 | 220 | | 48.0 B | | | | 21.0 B | | | 12 |
| 13 | | 105 | 22 | 200 | | 44.0 B | | | | 20.1 B | | | 13 |
| 14 | | 102 | 21 | 185 | | 41.7 B | | | | 20.2 B | | | 14 |
| 15 | | 102 | 20 | 176 | | 41.0 B | | | | 18.8 B | | | 15 |
| 16 | | 98.7 | 20 | 171 | | 41.3 B | | | | 18.7 B | | | 16 |
| 17 | | 93.7 | 18 | 146 | | 42.1 B | | | | 18.5 B | | | 17 |
| 18 | | 91.1 | 17 | 134 | | 40.0 B | | | | 19.0 B | | | 18 |
| 19 | | 91.4 | 16 | 128 | | 38.9 B | | | | 18.7 B | | | 19 |
| 20 | | 93.4 | 14 | 113 | | 38.7 B | | | | 18.3 B | | | 20 |
| 21 | | 90.7 | 13 | 102 | | 34.0 B | | | | 18.7 B | | | 21 |
| 22 | | 90.1 | 12 | 93.4 | | 32.9 B | | | | 18.8 B | | | 22 |
| 23 | | 88.5 B | 10 | 74.7 | | 32.6 B | | | | 19.0 B | | | 23 |
| 24 | | 83.0 B | 10 | 71.7 | | 32.6 B | | | | 18.9 B | | | 24 |
| 25 | | 80.8 B | 10 | 69.8 | | 32.9 B | | | | 19.0 B | | | 25 |
| 26 | | 80.0 B | 10 | 69.1 | | 33.2 B | | | | 18.8 B | | | 26 |
| 27 | | 78.5 B | 9 | 61.8 | | 32.3 B | | | | 18.5 B | | | 27 |
| 28 | | 74.0 B | 9 | 57.5 | | 30.0 B | | | | 18.1 B | | | 28 |
| 29 | | 72.7 B | 9 | 56.5 | | 28.5 B | | | | 18.0 B | | | 29 |
| 30 | | 71.8 B | 8 | 49.5 | | 27.0 B | | | | 18.1 B | | | 30 |
| 31 | | 70.7 B | 8 | 48.8 | | | | | | 18.3 B | | | 31 |
| TOTAL | 3 105.1 | | | 5 734.0 | | 1 332.8 | | | | 843.8 | | | TOTAL |
| MEAN | 100 | | | 185 | | 44.4 | | | | 28.8 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 47 18 N
LONG 122 38 33 W
DRAINAGE AREA 30 300 km²
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10CD001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 15 | 13:23 | 253 | | | 303 | R | 33 | 44 | 62 | 81 | 89 | 94 | 98 | 100 | | | | BNW |
| JUN 13 | 16:50 | 571 | | 12.0 | 1 050 | R | 25 | 34 | 47 | 58 | 70 | 80 | 88 | 94 | 98 | 100 | | BNW |
| AUG 02 | 20:32 | 847 | | 11.0 | 527 | R | 24 | 32 | 42 | 52 | 63 | 72 | 85 | 93 | 98 | 100 | | BNW |
| AUG 04 | 15:30 | 576 | M | 15.0 | 551 | K | 28 | 35 | 42 | 50 | 58 | 68 | 77 | 93 | 100 | | | BNW |
| AUG 08 | 14:08 | 397 | M | | 295 | K | 12 | 17 | 28 | 39 | 52 | 69 | 82 | 92 | 98 | 100 | | BNW |
| AUG 12 | 08:58 | 348 | M | 15.0 | 300 | K | 20 | 32 | 50 | 64 | 68 | 78 | 88 | 98 | 100 | | | BNW |

M - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FB005

SUSPENDED SEDIMENT FOR 1982

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.041 B | | | | 0.023 B | | | | 0.017 B | | | 1 |
| 2 | | 0.040 B | | | | 0.021 B | | | | 0.018 B | | | 2 |
| 3 | | 0.040 B | | | | 0.020 B | | | | 0.018 B | | | 3 |
| 4 | | 0.038 B | | | | 0.020 B | | | | 0.017 B | | | 4 |
| 5 | | 0.037 B | | | | 0.019 B | | | | 0.018 B | | | 5 |
| 6 | | 0.037 B | | | | 0.018 B | | | | 0.017 B | | | 6 |
| 7 | | 0.038 B | | | | 0.020 B | | | | 0.017 B | | | 7 |
| 8 | | 0.035 B | | | | 0.020 B | | | | 0.017 B | | | 8 |
| 9 | | 0.032 B | | | | 0.019 B | | | | 0.020 B | | | 9 |
| 10 | | 0.030 B | | | | 0.019 B | | | | 0.022 B | | | 10 |
| 11 | | 0.030 B | | | | 0.020 B | | | | 0.023 B | | | 11 |
| 12 | | 0.032 B | | | | 0.019 B | | | | 0.022 B | | | 12 |
| 13 | | 0.032 B | | | | 0.020 B | | | | 0.021 B | | | 13 |
| 14 | | 0.031 B | | | | 0.021 B | | | | 0.020 B | | | 14 |
| 15 | | 0.031 B | | | | 0.020 B | | | | 0.019 B | | | 15 |
| 16 | | 0.028 B | | | | 0.019 B | | | | 0.019 B | | | 16 |
| 17 | | 0.026 B | | | | 0.018 B | | | | 0.020 B | | | 17 |
| 18 | | 0.026 B | | | | 0.018 B | | | | 0.020 B | | | 18 |
| 19 | | 0.028 B | | | | 0.018 B | | | | 0.019 B | | | 19 |
| 20 | | 0.026 B | | | | 0.019 B | | | | 0.018 B | | | 20 |
| 21 | | 0.026 B | | | | 0.020 B | | | | 0.017 B | | | 21 |
| 22 | | 0.022 B | | | | 0.020 B | | | | 0.017 B | | | 22 |
| 23 | | 0.020 B | | | | 0.019 B | | | | 0.017 B | | | 23 |
| 24 | | 0.019 B | | | | 0.022 B | | | | 0.018 B | | | 24 |
| 25 | | 0.019 B | | | | 0.020 B | | | | 0.019 B | | | 25 |
| 26 | | 0.020 B | | | | 0.017 B | | | | 0.020 B | | | 26 |
| 27 | | 0.021 B | | | | 0.018 B | | | | 0.021 B | | | 27 |
| 28 | | 0.022 B | | | | 0.017 B | | | | 0.022 B | | | 28 |
| 29 | | 0.022 B | | | | | | | | 0.024 B | | | 29 |
| 30 | | 0.023 B | | | | | | | | 0.026 B | | | 30 |
| 31 | | 0.022 B | | | | | | | | 0.027 B | | | 31 |
| TOTAL | | 0.800 | | | | 0.543 | | | | 0.805 | | | TOTAL |
| MEAN | | 0.023 | | | | 0.019 | | | | 0.019 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.028 B | | | | 0.418 | 8 | 0.22 | 5.0 | 0.105 | 2 S | 0.02 | 1 |
| 2 | | 0.030 B | | | | 0.414 | 8 | 0.21 | | 0.107 | 3 | 0.03 | 2 |
| 3 | | 0.034 B | | | 5.0 | 0.392 | 8 S | 0.20 | | 0.117 | 5 | 0.05 | 3 |
| 4 | | 0.036 B | | | | 0.348 | 8 | 0.18 | | 0.128 | 9 | 0.10 | 4 |
| 5 | | 0.043 B | | | | 0.344 | 9 | 0.24 | | 0.132 | 9 | 0.09 | 5 |
| 6 | | 0.049 B | | | | 0.388 | 9 | 0.30 | 7.0 | 0.109 | 6 S | 0.06 | 6 |
| 7 | | 0.058 B | | | | 0.715 | 15 | 0.93 | | 0.098 | 3 | 0.03 | 7 |
| 8 | | 0.089 B | | | | 0.908 | 19 | 1.49 | 8.0 | 0.108 | 3 S | 0.03 | 8 |
| 9 | | 0.075 B | | | | 0.878 | 20 | 1.89 | | 0.145 | 9 | 0.11 | 9 |
| 10 | | 0.081 B | | | 4.0 | 0.841 | 15 S | 1.09 | | 0.123 | 7 | 0.07 | 10 |
| 11 | | 0.085 B | | | | 0.855 | 11 | 0.82 | | 0.113 | 3 | 0.02 | 11 |
| 12 | | 0.086 B | | | | 0.505 | 9 | 0.39 | | 0.128 | 3 | 0.03 | 12 |
| 13 | | 0.094 B | | | 4.0 | 0.403 | 8 S | 0.21 | 9.0 | 0.117 | 1 S | 0.01 | 13 |
| 14 | | 0.100 B | | | | 0.385 | 5 | 0.15 | | 0.102 | 1 | 0.01 | 14 |
| 15 | | 0.133 B | | | | 0.222 | 6 | 0.17 | 8.0 | 0.094 | 1 S | 0.01 | 15 |
| 16 | | 0.234 B | | | | 0.228 | 6 | 0.15 | | 0.088 | 1 | 0.01 | 16 |
| 17 | | 0.630 B | | | 5.0 | 0.265 | 6 S | 0.14 | | 0.087 | 1 | 0.01 | 17 |
| 18 | | 0.730 B | | | | 0.241 | 8 | 0.12 | | 0.089 | 2 | 0.02 | 18 |
| 19 | | 0.840 B | | | 5.0 | 0.223 | 8 S | 0.12 | | 1.48 | 135 | 17.5 | 19 |
| 20 | | 0.890 B | | | | 0.202 | 5 | 0.08 | 8.0 | 2.87 | 187 S | 46.4 | 20 |
| 21 | | 1.08 B | | | | 0.192 | 4 | 0.07 | | 1.81 | 84 | 13.9 | 21 |
| 22 | | 1.05 B | | | | 0.178 | 4 | 0.06 | 7.0 | 1.28 | 25 S | 2.78 | 22 |
| 23 | | 1.05 | | | | 0.170 | 3 | 0.04 | | 0.811 | 10 | 0.70 | 23 |
| 24 | | 1.17 | | | 5.0 | 0.159 | 3 S | 0.04 | | 0.889 | 13 | 1.00 | 24 |
| 25 | | 1.10 | | | | 0.150 | 2 | 0.03 | | 1.83 | 25 | 4.11 | 25 |
| 26 | | 0.887 | | | 5.0 | 0.140 | 2 S | 0.02 | | 1.28 | 20 | 2.18 | 26 |
| 27 | | 0.713 | | | | 0.132 | 2 | 0.02 | 10.0 | 0.817 | 14 S | 1.11 | 27 |
| 28 | | 0.587 | | | | 0.132 | 2 | 0.02 | | 0.535 | 11 | 0.80 | 28 |
| 29 | | 0.581 | | | | 0.138 | 2 | 0.02 | | 0.416 | 9 | 0.32 | 29 |
| 30 | | 0.807 | | | 5.0 | 0.120 | 2 S | 0.02 | | 0.495 | 8 | 0.34 | 30 |
| 31 | | | | | | 0.113 | 2 | 0.02 | | | | | 31 |
| TOTAL | | 12.304 | | | | 10.814 | | 5.07 | | 18.749 | | 91.57 | TOTAL |
| MEAN | | 0.440 | | | | 0.369 | | 0.39 | | 0.858 | | 3.05 | MEAN |

BRITISH COLUMBIA

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FB005

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.06 | 15 | 1.37 | 0.289 | 9 | 0.22 | | 0.070 | 6 | 0.04 | 1 |
| 2 | | 1.21 | 18 | 1.88 | 0.251 | 9 | 0.20 | | 0.070 | 6 | 0.04 | 2 |
| 3 | | 1.37 | 21 | 2.48 | 0.287 | 12 | 0.27 | | 0.088 | 6 | 0.04 | 3 |
| 4 | | 1.51 | 24 | 3.13 | 0.288 | 16 | 0.33 | | 0.082 | 6 | 0.03 | 4 |
| 5 | | 1.14 | 19 | 1.87 | 0.227 | 14 S | 0.27 | | 0.059 | 5 | 0.03 | 5 |
| 6 | | 0.885 | 13 | 0.97 | 0.200 | 13 | 0.21 | | 0.080 | 6 | 0.03 | 6 |
| 7 | | 1.48 | 20 | 2.52 | 0.181 | 11 | 0.17 | | 0.082 | 6 | 0.03 | 7 |
| 8 | | 1.80 | 21 | 3.80 | 0.184 | 10 | 0.14 | | 0.082 | 6 | 0.03 | 8 |
| 9 | | 1.25 | 18 | 1.84 | 0.148 | 8 | 0.11 | | 0.080 | 6 | 0.03 | 9 |
| 10 | | 0.893 | 14 | 1.20 | 0.130 | 8 | 0.10 | | 0.059 | 5 | 0.03 | 10 |
| 11 | | 0.784 | 12 | 0.83 | 0.120 | 8 | 0.08 | | 0.055 | 6 | 0.03 | 11 |
| 12 | | 0.854 | 10 | 0.57 | 0.110 | 8 | 0.08 | | 0.054 | 6 | 0.03 | 12 |
| 13 | | 0.538 | 10 | 0.48 | 0.102 | 7 | 0.08 | | 0.057 | 6 | 0.03 | 13 |
| 14 | | 1.52 | 28 | 3.41 | 0.102 | 7 | 0.08 | | 0.057 | 6 | 0.03 | 14 |
| 15 | | 3.36 | 91 | 26.4 | 0.100 | 8 | 0.08 | 3.0 | 0.055 | 6 S | 0.03 | 15 |
| 16 | 9.0 | 3.80 | 95 S | 29.5 | 0.091 | 8 | 0.08 | | 0.074 | 9 | 0.08 | 16 |
| 17 | | 2.78 | 84 | 15.4 | 0.087 | 8 | 0.08 | | 0.098 | 12 | 0.10 | 17 |
| 18 | | 2.36 | 40 | 8.23 | 0.084 | 8 | 0.04 | | 0.102 | 12 | 0.11 | 18 |
| 19 | | 1.84 | 27 | 4.63 | 0.081 | 8 | 0.04 | | 0.085 | 10 | 0.08 | 19 |
| 20 | | 1.88 | 20 | 2.73 | 0.078 | 8 | 0.03 | | 0.091 | 9 | 0.07 | 20 |
| 21 | | 1.85 | 21 | 3.01 | 0.074 | 8 | 0.03 | | 0.084 | 9 | 0.07 | 21 |
| 22 | | 1.38 | 17 | 2.03 | 0.087 | 8 | 0.05 | | 0.077 | 9 | 0.08 | 22 |
| 23 | | 1.11 | 13 | 1.26 | 0.071 | 8 | 0.04 | | 0.070 | 8 | 0.05 | 23 |
| 24 | | 0.910 | 10 | 0.79 | 0.084 | 8 | 0.03 | | 0.081 | 8 | 0.04 | 24 |
| 25 | | 0.785 | 8 | 0.55 | 0.080 | 8 | 0.03 | | 0.085 | 8 | 0.04 | 25 |
| 26 | | 1.11 | 12 | 1.15 | 0.088 | 8 | 0.03 | | 0.052 | 8 | 0.04 | 26 |
| 27 | | 1.22 | 18 | 1.88 | 0.087 | 8 | 0.03 | | 0.053 | 7 | 0.03 | 27 |
| 28 | | 0.831 | 13 | 0.97 | 0.089 | 8 | 0.04 | | 0.053 | 7 | 0.03 | 28 |
| 29 | | 0.774 | 11 | 0.74 | 0.085 | 8 | 0.04 | | 0.048 | 8 | 0.02 | 29 |
| 30 | | 0.688 | 10 | 0.48 | 0.084 | 8 | 0.04 | | 0.047 | 8 | 0.02 | 30 |
| 31 | | 0.385 | 10 | 0.33 | 0.078 | 8 | 0.04 | | | | | 31 |
| TOTAL | | 42.449 | | 128.33 | 3.840 | | 2.88 | | 1.971 | | 1.30 | TOTAL |
| MEAN | | 1.37 | | 4.04 | 0.124 | | 0.10 | | 0.066 | | 0.04 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.048 | 8 | 0.02 | | 0.088 E | | | | 0.021 B | | | 1 |
| 2 | | 0.049 | 8 | 0.03 | | 0.080 E | | | | 0.021 B | | | 2 |
| 3 | | 0.049 | 8 | 0.03 | | 0.078 E | | | | 0.021 B | | | 3 |
| 4 | | 0.054 | 8 | 0.04 | | 0.078 E | | | | 0.022 B | | | 4 |
| 5 | | 0.053 | 7 | 0.03 | | 0.072 B | | | | 0.025 B | | | 5 |
| 6 | | 0.053 | 7 | 0.03 | | 0.067 B | | | | 0.023 B | | | 6 |
| 7 | | 0.051 | 7 | 0.03 | | 0.062 B | | | | 0.020 B | | | 7 |
| 8 | | 0.049 | 7 | 0.03 | | 0.057 B | | | | 0.019 B | | | 8 |
| 9 | | 0.049 | 7 | 0.03 | | 0.052 B | | | | 0.017 B | | | 9 |
| 10 | | 0.049 | 7 | 0.03 | | 0.048 B | | | | 0.016 B | | | 10 |
| 11 | | 0.052 | 8 | 0.04 | | 0.051 B | | | | 0.018 B | | | 11 |
| 12 | | 0.057 | 11 | 0.05 | | 0.052 B | | | | 0.019 B | | | 12 |
| 13 | 4.0 | 0.057 A | 31 S | 0.18 | | 0.047 B | | | | 0.020 B | | | 13 |
| 14 | | 0.064 E | 27 | 0.15 | | 0.042 B | | | | 0.018 B | | | 14 |
| 15 | | 0.070 E | 29 | 0.18 | | 0.038 B | | | | 0.016 B | | | 15 |
| 16 | | 0.067 E | 25 | 0.14 | | 0.038 B | | | | 0.015 B | | | 16 |
| 17 | | 0.060 E | 17 | 0.08 | | 0.038 B | | | | 0.014 B | | | 17 |
| 18 | | 0.056 E | 11 | 0.06 | | 0.037 B | | | | 0.015 B | | | 18 |
| 19 | | 0.054 E | 7 | 0.03 | | 0.038 B | | | | 0.016 B | | | 19 |
| 20 | | 0.047 E | 5 | 0.02 | | 0.034 B | | | | 0.017 B | | | 20 |
| 21 | | 0.048 E | 7 | 0.03 | | 0.033 B | | | | 0.018 B | | | 21 |
| 22 | | 0.055 E | 13 | 0.06 | | 0.031 B | | | | 0.017 B | | | 22 |
| 23 | | 0.062 E | 17 | 0.09 | | 0.028 B | | | | 0.016 B | | | 23 |
| 24 | | 0.060 E | 16 | 0.08 | | 0.026 B | | | | 0.015 B | | | 24 |
| 25 | | 0.056 E | 13 | 0.07 | | 0.026 B | | | | 0.015 B | | | 25 |
| 26 | | 0.070 E | 18 | 0.11 | | 0.029 B | | | | 0.017 B | | | 26 |
| 27 | | 0.080 E | 28 | 0.20 | | 0.029 B | | | | 0.017 B | | | 27 |
| 28 | | 0.080 E | 36 | 0.25 | | 0.026 B | | | | 0.015 B | | | 28 |
| 29 | | 0.074 E | 27 | 0.17 | | 0.025 B | | | | 0.015 B | | | 29 |
| 30 | | 0.064 E | 19 | 0.11 | | 0.022 B | | | | 0.015 B | | | 30 |
| 31 | | 0.078 E | 27 | 0.18 | | | | | | 0.015 B | | | 31 |
| TOTAL | | 1.843 | | 2.82 | | 1.370 | | | | 0.548 | | | TOTAL |
| MEAN | | 0.059 | | 0.08 | | 0.048 | | | | 0.017 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT. 55 08 48 N
LONG 120 55 24 W
DRAINAGE AREA 30.6 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FB005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JUN 20 | 10:32 | 3.87H | 8.0 | 199 X | 27 | 30 | 34 | 45 | 59 | 79 | 97 | 100 | | | | SNW |

H - DAILY MEAN DISCHARGE

X - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CE001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 58.0 B | | | | 46.5 B | | | | 38.0 B | | | 1 |
| 2 | | 58.0 B | | | | 45.5 B | | | | 38.0 B | | | 2 |
| 3 | | 58.0 B | | | | 46.5 B | | | | 38.5 B | | | 3 |
| 4 | | 57.5 B | | | | 46.0 B | | | | 34.0 B | | | 4 |
| 5 | | 57.5 B | | | | 43.5 B | | | | 33.5 B | | | 5 |
| 6 | | 57.0 B | | | | 42.5 B | | | | 33.5 B | | | 6 |
| 7 | | 56.0 B | | | | 42.0 B | | | | 33.5 B | | | 7 |
| 8 | | 55.0 B | | | | 42.0 B | | | | 33.5 B | | | 8 |
| 9 | | 54.0 B | | | | 42.0 B | | | | 33.5 B | | | 9 |
| 10 | | 53.0 B | | | | 42.0 B | | | | 33.5 B | | | 10 |
| 11 | | 52.5 B | | | | 42.0 B | | | | 33.5 B | | | 11 |
| 12 | | 52.5 B | | | | 42.0 B | | | | 34.0 B | | | 12 |
| 13 | | 52.5 B | | | | 41.0 B | | | | 35.0 B | | | 13 |
| 14 | | 52.5 B | | | | 40.5 B | | | | 36.0 B | | | 14 |
| 15 | | 52.5 B | | | | 40.0 B | | | | 36.0 B | | | 15 |
| 16 | | 52.5 B | | | | 39.5 B | | | | 36.0 B | | | 16 |
| 17 | | 52.0 B | | | | 39.5 B | | | | 35.5 B | | | 17 |
| 18 | | 51.0 B | | | | 39.0 B | | | | 35.0 B | | | 18 |
| 19 | | 51.0 B | | | | 39.0 B | | | | 34.5 B | | | 19 |
| 20 | | 50.5 B | | | | 39.5 B | | | | 34.0 B | | | 20 |
| 21 | | 49.0 B | | | | 40.0 B | | | | 34.0 B | | | 21 |
| 22 | | 48.0 B | | | | 40.5 B | | | | 33.5 B | | | 22 |
| 23 | | 48.5 B | | | | 40.5 B | | | | 33.5 B | | | 23 |
| 24 | | 48.5 B | | | | 40.0 B | | | | 33.5 B | | | 24 |
| 25 | | 48.5 B | | | | 39.5 B | | | | 33.5 B | | | 25 |
| 26 | | 48.0 B | | | | 38.0 B | | | | 33.5 B | | | 26 |
| 27 | | 48.0 B | | | | 38.5 B | | | | 34.0 B | | | 27 |
| 28 | | 48.5 B | | | | 38.0 B | | | | 34.0 B | | | 28 |
| 29 | | 47.0 B | | | | | | | | 34.0 B | | | 29 |
| 30 | | 47.0 B | | | | | | | | 34.0 B | | | 30 |
| 31 | | 46.5 B | | | | | | | | 34.0 B | | | 31 |
| TOTAL | | 1 595.0 | | | | 1 152.5 | | | | 1 052.5 | | | TOTAL |
| MEAN | | 51.5 | | | | 41.2 | | | | 34.3 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 34.0 B | | | | 200 B | | | | 2 010 | 1 080 | 188 000 | 1 |
| 2 | | 34.0 B | | | | 236 B | | | | 2 130 | 1 260 | 232 000 | 2 |
| 3 | | 33.5 B | | | | 229 | | | 8.0 | 2 080 | 858 S | 152 000 | 3 |
| 4 | | 34.0 B | | | | 211 | | | | 1 850 | 478 | 88 300 | 4 |
| 5 | | 34.0 B | | | | 202 | | | | 1 210 | 370 | 36 200 | 5 |
| 6 | | 33.5 B | | | | 208 | | | | 847 | 303 | 18 800 | 6 |
| 7 | | 32.5 B | | | | 230 | | | | 818 | 188 | 13 800 | 7 |
| 8 | | 32.0 B | | | | 250 | | | | 788 | 189 | 11 200 | 8 |
| 9 | | 32.0 B | | | | 268 | | | | 784 | 136 | 9 210 | 9 |
| 10 | | 32.0 B | | | | 289 | | | | 870 | 239 | 18 000 | 10 |
| 11 | | 32.5 B | | | | 307 | | | | 942 | 445 | 36 200 | 11 |
| 12 | | 32.5 B | | | | 328 | | | | 1 010 | 862 | 57 800 | 12 |
| 13 | | 33.0 B | | | | 348 | | | | 970 | 470 | 39 400 | 13 |
| 14 | | 33.5 B | | | | 374 | | | | 883 | 220 | 18 800 | 14 |
| 15 | | 34.5 B | | | | 418 | | | | 885 | 233 | 17 400 | 15 |
| 16 | | 35.5 B | | | | 481 | | | | 878 | 477 | 40 300 | 16 |
| 17 | | 37.0 B | | | | 484 | | | | 831 | 275 | 32 100 | 17 |
| 18 | | 39.5 B | | | | 484 | | | | 887 | 203 | 18 200 | 18 |
| 19 | | 43.0 B | | | | 411 | | | | 880 | 478 | 40 900 | 19 |
| 20 | | 45.5 B | | | | 447 | | | 9.0 | 1 180 A | 881 S | 88 300 | 20 |
| 21 | | 50.0 B | | | | 558 | | | | 1 180 | 988 | 97 100 | 21 |
| 22 | | 54.0 B | | | | 549 | | | 9.0 | 1 080 | 872 S | 78 900 | 22 |
| 23 | | 60.0 B | | | | 523 | | | | 1 000 | 785 | 85 200 | 23 |
| 24 | | 67.0 B | | | | 528 | | | | 1 020 | 888 | 88 000 | 24 |
| 25 | | 75.0 B | | | | 518 | | | | 1 000 | 898 | 81 800 | 25 |
| 26 | | 83.0 B | | | | 487 | | | | 934 | 518 | 41 800 | 26 |
| 27 | | 83.0 B | | | | 454 | | | | 841 | 434 | 31 800 | 27 |
| 28 | | 103 B | | | | 427 | | | | 787 | 388 | 23 800 | 28 |
| 29 | | 130 B | | | | 537 | | | | 703 | 280 | 17 000 | 29 |
| 30 | | 160 B | | | | 884 | | | | 681 | 261 | 15 400 | 30 |
| 31 | | | | | | 1 050 | | | | | | | 31 |
| TOTAL | | 1 888.0 | | | | 13 544 | | | | 31 885 | | 1 803 310 | TOTAL |
| MEAN | | 62.3 | | | | 437 | | | | 1 070 | | 63 100 | MEAN |

BRITISH COLUMBIA

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CE0001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 785 | 352 | 23 000 | | 887 | 77 | 3 770 | | 383 | | | 1 |
| 2 | | 809 | 462 | 31 800 | | 838 | 88 | 3 180 | | 387 | | | 2 |
| 3 | | 861 | 567 | 43 200 | | 803 | 88 | 3 000 | | 418 | | | 3 |
| 4 | | 818 | 607 | 48 000 | 4.0 | 477 | 71 S | 2 930 | | 488 | | | 4 |
| 5 | | 868 | 597 | 42 400 | | 443 | 71 | 2 730 | | 510 | | | 5 |
| 6 | | 785 | 487 | 33 500 | | 413 | 71 | 2 830 | | 501 | | | 6 |
| 7 | | 725 | 414 | 28 000 | | 383 | 88 | 2 240 | | 450 | | | 7 |
| 8 | | 896 | 351 | 21 100 | | 380 | 80 | 1 970 | | 489 | | | 8 |
| 9 | | 883 | 279 | 18 800 | | 370 | 51 | 1 830 | | 488 | | | 9 |
| 10 | | 852 | 208 | 11 700 | | 359 | 49 | 1 520 | | 422 | | | 10 |
| 11 | 3.0 | 820 | 152 S | 8 140 | | 347 | 42 | 1 280 | | 393 | | | 11 |
| 12 | | 878 | 124 | 8 200 | | 348 | 41 | 1 230 | | 374 | | | 12 |
| 13 | 3.0 | 853 | 108 S | 5 080 | | 324 | 48 | 1 370 | | 385 | | | 13 |
| 14 | 4.0 | 818 | 85 S | 4 250 | | 314 | 46 | 1 250 | | 357 | | | 14 |
| 15 | | 485 | 97 | 4 080 | | 303 | 82 | 1 820 | | 348 | | | 15 |
| 16 | 4.0 | 478 | 93 S | 3 850 | | 323 | 90 | 2 510 | | 340 | | | 16 |
| 17 | 4.0 | 477 | 81 S | 3 340 | 2.0 | 378 | 85 S | 2 780 | | 328 | | | 17 |
| 18 | 4.0 | 482 | 70 S | 2 780 | | 410 | 82 | 2 900 | | 312 | | | 18 |
| 19 | 5.0 | 448 | 86 S | 2 840 | | 401 | 83 | 2 880 | | 285 | | | 19 |
| 20 | | 433 | 82 | 2 320 | | 400 | 83 | 2 870 | | 285 | | | 20 |
| 21 | | 448 | 88 | 2 270 | | 382 | 74 | 2 510 | | 285 | | | 21 |
| 22 | | 511 | 85 | 2 430 | | 388 | 81 | 2 030 | | 288 | | | 22 |
| 23 | | 481 | 48 | 1 890 | | 388 | 82 | 2 070 | | 303 | | | 23 |
| 24 | | 442 | 39 | 1 480 | | 382 | 80 | 1 980 | | 287 | | | 24 |
| 25 | 4.0 | 428 | 37 S | 1 380 | 11.0 | 388 | 84 S | 3 190 | | 284 | | | 25 |
| 26 | | 433 | 35 | 1 350 | | 408 | 84 | 2 280 | | 304 | | | 26 |
| 27 | | 488 | 38 | 1 810 | | 400 | 83 | 2 180 | | 288 | | | 27 |
| 28 | | 559 | 78 | 3 820 | | 403 | 82 | 2 180 | | 283 | | | 28 |
| 29 | | 552 | 88 | 4 830 | | 389 | 82 | 2 080 | | 288 | | | 29 |
| 30 | | 548 | 85 | 4 010 | | 370 | 81 | 1 950 | | 257 | | | 30 |
| 31 | | 551 | 78 | 3 780 | | 388 | 80 | 1 910 | | | | | 31 |
| TOTAL | | 18 284 | | 387 870 | | 12 284 | | 88 470 | | 10 770 | | | TOTAL |
| MEAN | | 589 | | 11 900 | | 395 | | 2 240 | | 359 | | | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 288 | | | | 140 B | | | | 49.5 B | | | 1 |
| 2 | | 270 | | | | 138 B | | | | 49.0 B | | | 2 |
| 3 | | 272 | | | | 138 B | | | | 48.0 B | | | 3 |
| 4 | | 272 | | | | 139 B | | | | 48.0 B | | | 4 |
| 5 | | 274 | | | | 138 B | | | | 46.0 B | | | 5 |
| 6 | | 288 | | | | 120 B | | | | 42.5 B | | | 6 |
| 7 | | 249 | | | | 108 B | | | | 41.0 B | | | 7 |
| 8 | | 248 | | | | 98.0 B | | | | 41.0 B | | | 8 |
| 9 | | 241 | | | | 95.0 B | | | | 41.5 B | | | 9 |
| 10 | | 227 | | | | 92.0 B | | | | 42.5 B | | | 10 |
| 11 | | 219 | | | | 90.0 B | | | | 43.0 B | | | 11 |
| 12 | | 222 | | | | 84.0 B | | | | 43.5 B | | | 12 |
| 13 | | 217 | | | | 80.0 B | | | | 44.0 B | | | 13 |
| 14 | | 208 | | | | 78.0 B | | | | 43.5 B | | | 14 |
| 15 | | 195 | | | | 78.0 B | | | | 42.0 B | | | 15 |
| 16 | | 182 | | | | 89.0 B | | | | 41.0 B | | | 16 |
| 17 | | 184 | | | | 84.0 B | | | | 41.5 B | | | 17 |
| 18 | | 192 | | | | 81.0 B | | | | 41.5 B | | | 18 |
| 19 | | 186 | | | | 80.0 B | | | | 41.0 B | | | 19 |
| 20 | | 182 | | | | 88.5 B | | | | 39.5 B | | | 20 |
| 21 | 8.0 | 180 | 13 S | 202 | | 89.5 B | | | | 38.5 B | | | 21 |
| 22 | | 178 | | | | 88.0 B | | | | 40.0 B | | | 22 |
| 23 | | 178 | | | | 87.5 B | | | | 40.5 B | | | 23 |
| 24 | | 188 | | | | 88.0 B | | | | 41.5 B | | | 24 |
| 25 | | 188 | | | | 88.0 B | | | | 41.5 B | | | 25 |
| 26 | | 188 | | | | 88.0 B | | | | 40.0 B | | | 26 |
| 27 | | 180 | | | | 84.5 B | | | | 39.5 B | | | 27 |
| 28 | | 167 | | | | 83.0 B | | | | 39.5 B | | | 28 |
| 29 | | 158 | | | | 80.5 B | | | | 40.0 B | | | 29 |
| 30 | | 161 | | | | 80.0 B | | | | 40.0 B | | | 30 |
| 31 | | 157 | | | | | | | | 40.0 B | | | 31 |
| TOTAL | | 5 410 | | | | 3 472.5 | | | | 1 307.5 | | | TOTAL |
| MEAN | | 207 | | | | 82.4 | | | | 42.2 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT. 56 02 38 N
LONG 129 56 45 W
DRAINAGE AREA 18 800 km²
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CD001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JUN 20 | 07:40 | 1 220 | 9.0 | 820 K | 9 | 11 | 16 | 22 | 28 | 38 | 50 | 62 | 74 | 92 | 100 | BNSW |
| JUN 22 | 13:50 | 1 060 H | 5.0 | 872 K | 8 | 11 | 14 | 17 | 20 | 24 | 33 | 52 | 74 | 95 | 100 | BNSW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

BRITISH COLUMBIA

SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK - STATION NO. 07FD007

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4.20 B | | | | 2.81 B | | | | 2.49 B | | | 1 |
| 2 | | 4.00 B | | | | 2.93 B | | | | 2.58 B | | | 2 |
| 3 | | 4.05 B | | | | 2.85 B | | | | 2.49 B | | | 3 |
| 4 | | 3.85 B | | | | 2.86 B | | | | 2.80 B | | | 4 |
| 5 | | 3.93 B | | | | 2.91 B | | | | 2.89 B | | | 5 |
| 6 | | 4.16 B | | | | 2.48 B | | | | 2.85 B | | | 6 |
| 7 | | 4.20 B | | | | 2.58 B | | | | 2.86 B | | | 7 |
| 8 | | 4.13 B | | | | 2.48 B | | | | 2.81 B | | | 8 |
| 9 | | 3.75 B | | | | 2.45 B | | | | 2.73 B | | | 9 |
| 10 | | 3.00 B | | | | 2.59 B | | | | 2.00 B | | | 10 |
| 11 | | 2.98 B | | | | 2.54 B | | | | 3.11 B | | | 11 |
| 12 | | 3.23 B | | | | 2.55 B | | | | 3.07 B | | | 12 |
| 13 | | 3.29 B | | | | 2.90 B | | | | 2.91 B | | | 13 |
| 14 | | 3.39 B | | | | 3.00 B | | | | 2.76 B | | | 14 |
| 15 | | 3.28 B | | | | 2.78 B | | | | 2.87 B | | | 15 |
| 16 | | 3.02 B | | | | 2.80 B | | | | 2.82 B | | | 16 |
| 17 | | 2.80 B | | | | 2.48 B | | | | 2.81 B | | | 17 |
| 18 | | 2.86 B | | | | 2.85 B | | | | 2.80 B | | | 18 |
| 19 | | 3.03 B | | | | 2.84 B | | | | 2.82 B | | | 19 |
| 20 | | 3.00 B | | | | 2.72 B | | | | 2.60 B | | | 20 |
| 21 | | 2.75 B | | | | 2.98 B | | | | 2.37 B | | | 21 |
| 22 | | 2.85 B | | | | 2.90 B | | | | 2.30 B | | | 22 |
| 23 | | 2.40 B | | | | 3.10 B | | | | 2.34 B | | | 23 |
| 24 | | 2.32 B | | | | 3.25 B | | | | 2.53 B | | | 24 |
| 25 | | 2.39 B | | | | 2.85 B | | | | 2.82 B | | | 25 |
| 26 | | 2.83 B | | | | 2.72 B | | | | 2.78 B | | | 26 |
| 27 | | 2.70 B | | | | 2.50 B | | | | 2.87 B | | | 27 |
| 28 | | 2.72 B | | | | 2.44 B | | | | 2.85 B | | | 28 |
| 29 | | 2.88 B | | | | | | | | 2.87 B | | | 29 |
| 30 | | 2.77 B | | | | | | | | 3.02 B | | | 30 |
| 31 | | 2.81 B | | | | | | | | 3.03 B | | | 31 |
| TOTAL | | 99.10 | | | | 75.25 | | | | 83.35 | | | TOTAL |
| MEAN | | 3.20 | | | | 2.69 | | | | 2.69 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.07 B | | | | 42.7 | 31 | 114 | | 103 | 48 S | 427 | 1 |
| 2 | | 3.18 B | | | | 38.6 | 30 | 103 | | 75.0 | 27 S | 175 | 2 |
| 3 | | 3.29 B | | | | 44.4 | 35 | 134 | | 53.0 | 23 | 105 | 3 |
| 4 | | 3.27 B | | | 12.0 | 65.9 | 41 S | 198 | | 41.8 | 19 | 66.8 | 4 |
| 5 | | 3.35 B | | | | 58.9 | 43 | 219 | | 38.2 | 17 | 51.7 | 5 |
| 6 | | 3.41 B | | | | 52.0 | 39 | 175 | | 57.5 | 30 | 148 | 6 |
| 7 | | 3.20 B | | | | 50.3 | 37 | 153 | | 56.8 | 33 S | 161 | 7 |
| 8 | | 2.73 B | | | | 57.3 | 32 | 158 | | 47.7 | 27 | 111 | 8 |
| 9 | | 2.85 B | | | | 59.8 | 26 | 134 | 5.0 | 65.9 | 34 S | 184 | 9 |
| 10 | | 2.84 B | | | | 48.4 | 17 | 72.6 | | 57.7 | 34 | 169 | 10 |
| 11 | | 2.88 B | | | 5.0 | 45.8 | 10 S | 39.5 | | 50.5 | 34 | 178 | 11 |
| 12 | | 3.05 B | | | 5.0 | 49.8 | 13 S | 55.9 | | 50.5 | 25 | 109 | 12 |
| 13 | | 3.08 B | | | | 53.7 | 17 | 78.8 | | 42.9 | 15 | 55.6 | 13 |
| 14 | | 3.20 B | | | | 45.8 | 15 | 63.0 | 8.0 | 38.8 | 8 S | 27.4 | 14 |
| 15 | | 3.38 B | | | | 39.1 A | 14 | 47.3 | | 35.7 | 7 | 21.6 | 15 |
| 16 | | 3.70 B | | | | 48.0 E | 14 | 82.1 | 7.0 | 33.5 | 8 S | 17.4 | 16 |
| 17 | | 4.60 B | | | | 59.0 E | 28 | 143 | | 28.7 | 5 | 12.4 | 17 |
| 18 | | 9.55 | 15 | 12.4 | 4.0 | 85.8 A | 53 S | 301 | | 24.0 | 5 | 10.4 | 18 |
| 19 | | 18.3 | 22 | 34.8 | | 88.1 | 53 | 303 | | 40.1 | 19 | 66.8 | 19 |
| 20 | | 20.8 | 29 | 52.1 | | 108 | 73 | 889 | | 61.1 | 45 | 218 | 20 |
| 21 | | 28.2 | 28 | 73.2 | | 142 | 68 | 1 080 | 8.0 | 81.2 | 27 S | 143 | 21 |
| 22 | | 35.0 | 26 | 78.6 | | 105 | 68 | 589 | | 48.8 | 18 | 37.2 | 22 |
| 23 | | 37.2 | 24 | 77.1 | | 86.3 | 55 | 552 | | 41.5 | 10 | 35.9 | 23 |
| 24 | | 46.3 | 31 | 132 | | 82.1 | 58 | 482 | | 47.0 | 13 | 52.8 | 24 |
| 25 | | 52.9 | 37 | 169 | 8.0 | 103 | 65 S | 578 | 8.0 | 66.2 | 18 S | 137 | 25 |
| 26 | | 43.9 | 32 | 121 | | 99.6 | 82 | 535 | | 80.7 | 15 | 83.9 | 26 |
| 27 | | 36.8 | 27 | 80.7 | 5.0 | 74.6 | 46 S | 281 | | 45.3 | 15 | 82.8 | 27 |
| 28 | | 44.5 | 28 | 111 | | 80.8 | 51 | 429 | 8.0 | 37.8 | 15 S | 32.3 | 28 |
| 29 | | 55.2 | 38 | 181 | | 108 | 78 | 728 | | 33.8 | 17 | 48.8 | 29 |
| 30 | | 50.6 | 37 | 162 | | 127 | 86 | 946 | | 48.7 | 15 | 76.7 | 30 |
| 31 | | | | | | 122 | 83 S | 875 | | | | | 31 |
| TOTAL | | 539.53 | | | | 2 281.8 | | 10 341.4 | | 1 530.9 | | 3 185.1 | TOTAL |
| MEAN | | 18.0 | | | | 73.0 | | 334 | | 51.0 | | 106 | MEAN |

BRITISH COLUMBIA

SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK - STATION NO. 07FB007

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 40.8 | 15 | 52.5 | | 17.2 | 12 | 17.8 | | 4.82 | 7 | 2.92 | 1 |
| 2 | | 38.3 | 13 | 40.8 | | 16.0 | 11 | 15.2 | | 4.46 | 7 | 2.70 | 2 |
| 3 | | 38.7 | 12 | 40.1 | | 16.8 | 11 | 15.7 | | 7.13 | 8 | 4.93 | 3 |
| 4 | | 34.4 | 11 | 32.7 | | 15.8 | 10 | 13.4 | | 11.1 | 10 | 9.89 | 4 |
| 5 | | 29.8 | 11 | 28.1 | | 14.0 | 9 | 10.8 | | 13.6 | 9 | 10.7 | 5 |
| 6 | | 26.0 | 11 | 24.7 | | 13.0 | 8 | 8.88 | | 13.1 | 8 | 9.05 | 6 |
| 7 | | 57.2 | 23 | 114 | | 12.2 | 8 | 8.43 | | 28.7 | 12 | 29.8 | 7 |
| 8 | | 47.1 | 16 | 85.1 | | 11.1 | 7 S | 8.71 | 7.0 | 27.1 | 9 S | 21.1 | 8 |
| 9 | | 37.2 | 11 | 35.4 | | 10.1 | 7 | 6.11 | | 21.1 | 7 | 13.8 | 9 |
| 10 | | 32.7 | 10 | 28.3 | | 9.16 | 8 | 8.33 | | 18.3 | 8 | 9.49 | 10 |
| 11 | | 39.8 | 14 | 47.8 | | 8.49 | 8 | 5.87 | | 15.9 | 8 | 8.24 | 11 |
| 12 | | 63.6 | 34 | 187 | | 8.15 | 8 | 5.83 | | 14.5 | 8 | 7.52 | 12 |
| 13 | | 51.0 | 32 | 141 | | 7.52 | 8 | 5.20 | | 14.4 | 8 | 6.22 | 13 |
| 14 | | 123 | 180 | 1 910 | | 7.23 | 8 | 5.00 | | 17.7 | 8 | 7.85 | 14 |
| 15 | | 186 | 208 | 3 320 | | 7.08 | 8 | 4.87 | | 17.8 | 8 | 7.89 | 15 |
| 16 | | 181 | 90 | 1 170 | | 8.73 | 8 | 5.23 | | 20.5 | 8 | 10.8 | 16 |
| 17 | | 108 | 41 | 383 | | 8.28 | 8 | 5.70 | | 22.9 | 8 | 15.8 | 17 |
| 18 | | 79.2 | 28 | 192 | | 9.83 | 10 | 8.48 | | 21.4 | 7 | 12.9 | 18 |
| 19 | 5.0 | 82.2 | 22 S | 118 | | 8.27 | 9 | 8.43 | | 18.8 | 8 | 8.04 | 19 |
| 20 | | 81.4 | 22 | 97.7 | | 8.81 | 8 | 8.09 | | 18.4 | 8 | 7.08 | 20 |
| 21 | | 80.0 | 21 | 90.7 | | 8.82 | 8 | 5.98 | | 16.2 | 8 | 7.09 | 21 |
| 22 | | 64.4 | 20 | 78.7 | | 7.44 | 7 | 4.80 | | 17.3 | 8 | 7.47 | 22 |
| 23 | | 36.8 | 18 | 60.8 | | 8.83 | 8 | 4.72 | | 17.7 | 8 | 7.85 | 23 |
| 24 | | 31.8 | 17 | 48.8 | | 6.38 | 7 | 3.88 | | 17.0 | 8 | 7.34 | 24 |
| 25 | | 29.2 | 16 | 40.4 | | 5.63 | 7 | 3.41 | | 17.7 | 8 | 7.89 | 25 |
| 26 | | 28.1 | 15 | 36.4 | | 5.11 | 7 | 3.09 | | 54.3 | 15 | 70.4 | 26 |
| 27 | | 28.3 | 14 | 31.8 | | 4.81 | 7 | 2.87 | | 79.3 | 24 | 184 | 27 |
| 28 | | 23.2 | 14 | 28.1 | | 4.74 | 7 | 2.87 | | 54.0 | 18 | 74.8 | 28 |
| 29 | | 22.0 | 14 | 26.8 | | 5.43 | 7 | 3.38 | | 41.2 | 11 | 39.2 | 29 |
| 30 | | 19.6 | 14 | 24.0 | | 5.81 | 7 | 3.57 | | 34.4 | 8 | 23.8 | 30 |
| 31 | | 18.2 | 13 | 20.4 | | 5.26 | 7 | 3.18 | | | | | 31 |
| TOTAL | | 1 623.7 | | 6 510.9 | | 281.35 | | 208.48 | | 678.81 | | 613.93 | TOTAL |
| MEAN | | 52.4 | | 275 | | 9.08 | | 6.76 | | 22.8 | | 20.5 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 28.8 | 8 | 20.7 | | 33.6 | | | | 3.80 B | | | 1 |
| 2 | | 25.7 | 8 | 17.8 | | 30.4 | | | | 3.75 B | | | 2 |
| 3 | | 24.0 | 8 | 16.8 | | 35.9 | | | | 3.98 B | | | 3 |
| 4 | | 31.0 | 10 | 26.8 | | 37.1 | | | | 4.21 B | | | 4 |
| 5 | | 30.2 | 10 | 26.1 | | 34.1 | | | | 4.32 B | | | 5 |
| 6 | | 26.6 | 7 | 18.1 | | 31.1 | | | | 3.82 B | | | 6 |
| 7 | | 24.5 | 5 | 10.6 | | 27.8 | | | | 3.60 B | | | 7 |
| 8 | | 21.3 | 4 | 7.38 | | 24.6 | | | | 3.31 B | | | 8 |
| 9 | | 19.6 | 3 | 5.13 | | 21.6 | | | | 3.21 B | | | 9 |
| 10 | | 18.0 | 2 | 3.11 | | 19.1 | | | | 3.23 B | | | 10 |
| 11 | | 17.1 | 2 | 2.85 | | 17.6 | | | | 3.42 B | | | 11 |
| 12 | | 16.4 | 1 | 1.33 | | 16.8 | | | | 3.88 B | | | 12 |
| 13 | | 14.9 | 0 | 0 | | 15.5 | | | | 3.88 B | | | 13 |
| 14 | | 16.3 | 0 | 0 | | 13.6 | | | | 3.45 B | | | 14 |
| 15 | | 16.1 | 0 | 0 | | 13.0 | | | | 3.21 B | | | 15 |
| 16 | | 14.8 | 0 | 0 | | 13.5 | | | | 3.02 B | | | 16 |
| 17 | | 13.8 | 0 | 0 | | 14.4 | | | | 2.79 B | | | 17 |
| 18 | 2.0 | 13.4 | 0 S | 0 | | 14.8 | | | | 2.80 B | | | 18 |
| 19 | | 15.1 | 0 | 0 | | 13.5 | | | | 2.88 B | | | 19 |
| 20 | | 18.3 | 0 | 0 | | 12.3 | | | | 3.05 B | | | 20 |
| 21 | | 18.6 | 0 | 0 | | 10.7 | | | | 3.20 B | | | 21 |
| 22 | | 23.3 | 1 | 2.01 | | 7.80 B | | | | 3.11 B | | | 22 |
| 23 | | 26.2 | 2 | 4.83 | | 5.40 B | | | | 2.96 B | | | 23 |
| 24 | | 23.4 | 1 | 2.02 | | 4.80 B | | | | 2.83 B | | | 24 |
| 25 | | 20.0 | 0 | 0 | | 4.67 B | | | | 2.88 B | | | 25 |
| 26 | | 36.7 | 4 | 12.7 | | 5.00 B | | | | 2.95 B | | | 26 |
| 27 | | 35.2 | 5 | 15.2 | | 5.25 B | | | | 2.91 B | | | 27 |
| 28 | | 30.4 | 3 | 7.88 | | 5.00 B | | | | 2.83 B | | | 28 |
| 29 | | 27.4 | 2 | 4.73 | | 4.75 B | | | | 2.84 B | | | 29 |
| 30 | | 29.9 | 2 | 5.17 | | 4.38 B | | | | 2.86 B | | | 30 |
| 31 | | 37.8 | 5 | 16.3 | | | | | | 2.82 B | | | 31 |
| TOTAL | | 716.1 | | 225.12 | | 487.84 | | | | 101.52 | | | TOTAL |
| MEAN | | 23.1 | | 7.26 | | 16.9 | | | | 3.27 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 10 14 N
LONG 121 45 30 W
DRAINAGE AREA 937 $km^2$
NATURAL FLOW

A : MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5.00 B | | | | 5.50 B | | | | 5.55 B | | | 1 |
| 2 | | 5.02 B | | | | 4.80 B | | | | 5.62 B | | | 2 |
| 3 | | 5.00 B | | | | 4.82 B | | | | 5.39 B | | | 3 |
| 4 | | 5.03 B | | | | 5.00 B | | | | 5.50 B | | | 4 |
| 5 | | 7.94 B | | | | 4.88 B | | | | 5.55 B | | | 5 |
| 6 | | 6.00 B | | | | 4.78 B | | | | 5.80 B | | | 6 |
| 7 | | 5.26 B | | | | 5.08 B | | | | 5.70 B | | | 7 |
| 8 | | 5.37 B | | | | 5.02 B | | | | 5.67 B | | | 8 |
| 9 | | 7.76 B | | | | 4.88 B | | | | 5.30 B | | | 9 |
| 10 | | 5.80 B | | | | 5.20 B | | | | 7.10 B | | | 10 |
| 11 | | 5.40 B | | | | 5.80 B | | | | 7.83 B | | | 11 |
| 12 | | 5.80 B | | | | 5.58 B | | | | 7.28 B | | | 12 |
| 13 | | 5.10 B | | | | 5.90 B | | | | 7.15 B | | | 13 |
| 14 | | 5.22 B | | | | 5.40 B | | | | 6.85 B | | | 14 |
| 15 | | 5.04 B | | | | 5.60 B | | | | 6.60 B | | | 15 |
| 16 | | 5.41 B | | | | 4.70 B | | | | 6.38 B | | | 16 |
| 17 | | 5.20 B | | | | 4.73 B | | | | 6.38 B | | | 17 |
| 18 | | 5.50 B | | | | 5.30 B | | | | 6.52 B | | | 18 |
| 19 | | 5.85 B | | | | 5.00 B | | | | 6.20 B | | | 19 |
| 20 | | 5.90 B | | | | 6.15 B | | | | 5.75 B | | | 20 |
| 21 | | 5.57 B | | | | 6.02 B | | | | 6.50 B | | | 21 |
| 22 | | 5.25 B | | | | 5.88 B | | | | 6.58 B | | | 22 |
| 23 | | 4.90 B | | | | 6.45 B | | | | 6.00 B | | | 23 |
| 24 | | 4.84 B | | | | 7.05 B | | | | 6.50 B | | | 24 |
| 25 | | 4.41 B | | | | 6.82 B | | | | 6.85 B | | | 25 |
| 26 | | 4.58 B | | | | 5.80 B | | | | 7.40 B | | | 26 |
| 27 | | 4.64 B | | | | 5.35 B | | | | 7.60 B | | | 27 |
| 28 | | 5.47 B | | | | 5.40 B | | | | 7.55 B | | | 28 |
| 29 | | 5.39 B | | | | | | | | 7.75 B | | | 29 |
| 30 | | 5.45 B | | | | | | | | 8.00 B | | | 30 |
| 31 | | 5.00 B | | | | | | | | 8.30 B | | | 31 |
| TOTAL | | 195.84 | | | | 154.08 | | | | 201.74 | | | TOTAL |
| MEAN | | 6.31 | | | | 5.50 | | | | 6.51 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.70 B | | | | 103 | 90 | 448 | | 248 | 147 | 3 120 | 1 |
| 2 | | 9.00 B | | | | 98.8 | 45 | 385 | 7.0 | 189 | 78 S | 1 270 | 2 |
| 3 | | 9.35 B | | | | 87.8 | 51 | 431 | | 141 | 80 | 731 | 3 |
| 4 | | 9.10 B | | | | 115 | 85 | 848 | | 119 | 42 | 432 | 4 |
| 5 | | 9.18 B | | | 5.0 | 126 | 71 S | 788 | | 103 | 28 | 258 | 5 |
| 6 | | 9.45 B | | | | 117 | 93 | 837 | | 114 | 40 | 394 | 6 |
| 7 | | 8.60 B | | | | 122 | 81 | 843 | 7.0 | 135 | 80 S | 883 | 7 |
| 8 | | 8.00 B | | | | 186 | 81 | 1 080 | | 117 | 40 | 404 | 8 |
| 9 | | 7.70 B | | | | 183 | 98 | 1 380 | 8.0 | 127 | 35 S | 384 | 9 |
| 10 | | 7.80 B | | | | 141 | 78 | 952 | | 129 | 31 | 348 | 10 |
| 11 | | 7.85 B | | | | 134 | 57 | 880 | | 138 | 28 | 308 | 11 |
| 12 | | 8.20 B | | | 7.0 | 147 | 41 S | 521 | | 128 | 33 | 340 | 12 |
| 13 | | 8.60 B | | | | 148 | 41 | 528 | | 111 | 18 | 182 | 13 |
| 14 | | 9.20 B | | | | 139 | 38 | 456 | 11.0 | 104 A | 16 S | 144 | 14 |
| 15 | | 10.1 B | | | | 123 | 33 | 351 | - | 98.5 E | 16 | 136 | 15 |
| 16 | | 12.0 B | | | | 136 | 34 | 397 | 10.0 | 93.7 A | 15 S | 121 | 16 |
| 17 | | 40 1 | 6 | 27.7 | | 181 | 81 | 1 270 | | 90.0 E | 14 | 108 | 17 |
| 18 | | 51 7 | 12 | 53.6 | 5.0 | 194 | 145 S | 2 450 | | 84.0 E | 13 | 94.3 | 18 |
| 19 | | 85.0 | 19 | 113 | | 185 | 140 | 2 240 | | 125 E | 13 | 140 | 19 |
| 20 | | 76.1 | 28 | 182 | 7.0 | 226 | 162 S | 3 180 | | 190 E | 29 | 478 | 20 |
| 21 | | 88.8 | 26 | 210 | | 287 | 207 | 5 130 | 10.0 | 151 A | 58 S | 807 | 21 |
| 22 | | 88 0 | 33 | 271 | | 237 | 173 | 3 540 | 11.0 | 128 A | 36 S | 414 | 22 |
| 23 | | 103 | 36 | 317 | | 236 | 178 | 3 480 | | 114 | 23 | 227 | 23 |
| 24 | | 118 | 45 | 458 | | 214 | 174 | 3 220 | | 108 | 23 | 215 | 24 |
| 25 | | 118 | 38 | 381 | 5.0 | 226 | 186 S | 3 610 | | 248 | 84 | 2 000 | 25 |
| 26 | | 101 | 27 | 238 | | 230 | 181 | 3 800 | | 189 | 85 | 1 390 | 26 |
| 27 | | 80.4 | 35 | 273 | 5.0 | 186 | 88 S | 1 080 | | 143 | 51 | 630 | 27 |
| 28 | | 97.5 | 43 | 362 | | 187 | 87 | 921 | 11.0 | 118 | 38 S | 285 | 28 |
| 29 | | 118 | 88 | 886 | | 230 | 111 | 2 210 | | 104 | 14 | 126 | 29 |
| 30 | | 118 | 88 | 881 | | 274 | 338 | 5 880 | | 122 | 28 | 295 | 30 |
| 31 | | | | | 5.0 | 276 | 357 S | 8 130 | | | | | 31 |
| TOTAL | | 1 423.13 | | | | 5 424.8 | | 55 188 | | 4 009.2 | | 15 359.3 | TOTAL |
| MEAN | | 47.4 | | | | 175 | | 1 880 | | 134 | | 842 | MEAN |

BRITISH COLUMBIA

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 130 | 40 | 448 | | 36.5 E | 10 | 31.6 | | 10.5 | 5 | 5.44 | 1 |
| 2 | | 119 | 24 | 247 | | 33.5 E | 10 | 28.9 | | 9.80 | 5 | 4.28 | 2 |
| 3 | | 126 | 24 | 257 | | 31.8 E | 9 | 24.7 | | 10.0 | 5 | 4.32 | 3 |
| 4 | | 113 | 19 | 186 | | 33.0 E | 8 | 25.7 | | 15.3 | 5 | 7.93 | 4 |
| 5 | | 100 | 15 | 130 | | 29.6 E | 8 | 22.0 | | 18.9 | 11 | 18.0 | 5 |
| 6 | | 90.3 | 13 | 101 | | 26.5 E | 8 | 18.3 | | | | | |
| 7 | | 176 | 40 | 608 | | 24.4 E | 5 | 18.0 | | 19.6 | 10 | 16.9 | 6 |
| 8 | | 175 | 64 | 968 | | 22.8 A | 7.5 | 13.4 | 5.0 | 33.1 | 13 | 37.2 | 7 |
| 9 | | 136 | 34 | 400 | | 20.9 | 7 | 12.6 | | 46.2 | 29.5 | 113 | 8 |
| 10 | | 113 | 17 | 166 | | 19.1 | 7 | 11.6 | | 38.3 | 11 | 36.4 | 9 |
| | | | | | | | | | | 33.4 | 8 | 23.1 | 10 |
| 11 | | 105 | 12 | 109 | | 17.9 | 7 | 10.8 | | | | | |
| 12 | | 138 | 32 | 382 | | 16.9 | 7 | 10.2 | | 30.2 | 8 | 20.8 | 11 |
| 13 | | 126 | 36 | 392 | | 16.1 | 7 | 9.74 | | 27.6 | 8 | 19.2 | 12 |
| 14 | | 247 | 216 | 4 610 | | 14.7 | 7 | 8.89 | | 26.6 | 9 | 20.6 | 13 |
| 15 | 7.0 | 448 | 788 S | 29 700 | | 13.8 | 7 | 8.33 | | 29.2 | 9 | 22.7 | 14 |
| | | | | | | | | | | 32.2 | 13 | 36.2 | 15 |
| 16 | | 408 A | 429 | 15 100 | | 12.6 | 6 | 8.84 | | | | | |
| 17 | | 288 E | 205 | 5 130 | | 13.4 | 8 | 8.95 | | 32.9 | 11 | 31.3 | 16 |
| 18 | | 210 E | 124 | 2 250 | | 17.2 | 8 | 11.9 | | 38.3 | 12 | 40.7 | 17 |
| 19 | | 150 E | 76 | 985 | | 16.7 | 11 | 15.9 | | 37.4 | 12 | 38.8 | 18 |
| 20 | | 112 E | 56 | 542 | | 15.5 | 8 | 10.7 | | 33.2 | 10 | 28.7 | 19 |
| | | | | | | | | | | 28.6 | 8 | 20.5 | 20 |
| 21 | | 110 E | 42 | 399 | | 15.6 | 7 | 10.0 | | | | | |
| 22 | | 85.0 E | 34 | 279 | | 14.3 | 7 | 8.85 | | 28.5 | 8 | 19.7 | 21 |
| 23 | | 85.0 E | 32 | 235 | | 12.6 | 8 | 8.48 | | 28.5 | 9 | 22.8 | 22 |
| 24 | | 78.0 E | 30 | 187 | | 11.5 | 7 | 8.98 | | 30.8 | 9 | 24.0 | 23 |
| 25 | | 88.0 E | 26 | 166 | | 10.8 | 8 | 8.65 | | 28.4 | 8 | 20.3 | 24 |
| | | | | | | | | | | 30.5 | 9 | 23.7 | 25 |
| 26 | | 83.5 E | 24 | 132 | | 10.2 | 8 | 8.28 | | 53.6 | 11 | 50.9 | 26 |
| 27 | | 68.0 E | 23 | 115 | | 10.0 | 8 | 8.18 | | 141 | 40 | 487 | 27 |
| 28 | | 83.0 E | 19 | 87.0 | | 10.2 | 8 | 8.28 | | 93.0 | 41 | 329 | 28 |
| 29 | | 48.5 E | 15 | 63.0 | | 11.1 | 8 | 8.78 | | 72.5 | 28 | 175 | 29 |
| 30 | | 44.0 E | 13 | 49.4 | | 12.2 | 8 | 8.43 | | 60.5 | 20 | 105 | 30 |
| 31 | | 40.0 E | 11 | 38.0 | | 11.5 | 7 | 8.96 | | | | | 31 |
| TOTAL | | 4 280.3 | | 54 461.4 | | 583.9 | | 383.89 | | 1 122.10 | | 1 803.87 | TOTAL |
| MEAN | | 137 | | 2 080 | | 18.2 | | 12.4 | | 37.4 | | 58.1 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 52.6 | 15 | 68.4 | | 78.4 | | | | 11.7 B | | | |
| 2 | | 47.0 | 13 | 52.8 | | 73.2 | | | | 11.5 B | | | 1 |
| 3 | | 42.0 | 11 | 39.9 | | 78.0 | | | | 11.5 B | | | 2 |
| 4 | | 47.6 | 11 | 46.2 | | 87.7 | | | | 12.5 B | | | 3 |
| 5 | | 48.7 | 13 | 55.8 | | 84.2 | | | | 12.8 B | | | 4 |
| | | | | | | | | | | | | | 5 |
| 6 | | 44.5 | 10 | 38.4 | | 80.2 | | | | | | | |
| 7 | | 40.5 | 8 | 36.0 | | 75.2 | | | | 11.5 B | | | |
| 8 | | 37.4 | 8 | 25.9 | | 66.6 | | | | 11.0 B | | | 6 |
| 9 | | 34.9 | 9 | 27.1 | | 63.0 | | | | 10.4 B | | | 7 |
| 10 | | 33.4 | 9 | 28.0 | | 60.4 | | | | 9.80 B | | | 8 |
| | | | | | | | | | | 9.80 B | | | 9 |
| 11 | | 31.0 | 8 | 21.4 | | 58.2 | | | | | | | 10 |
| 12 | | 28.2 | 7 | 17.7 | | 56.0 B | | | | 10.2 B | | | |
| 13 | | 28.1 | 9 | 22.6 | | 51.0 B | | | | 11.0 B | | | 11 |
| 14 | | 33.2 | 13 | 37.3 | | 45.0 B | | | | 11.2 B | | | 12 |
| 15 | | 34.2 | 15 | 44.3 | | 41.2 B | | | | 10.4 B | | | 13 |
| | | | | | | | | | | 9.80 B | | | 14 |
| 16 | | 32.5 | 13 | 36.5 | | 43.0 B | | | | | | | 15 |
| 17 | | 30.5 | 12 | 31.6 | | 45.6 B | | | | 8.60 B | | | |
| 18 | 2.0 | 30.9 | 10 S | 28.7 | | 47.0 B | | | | 8.30 B | | | 16 |
| 19 | | 34.4 | 10 | 28.7 | | 42.8 B | | | | 8.20 B | | | 17 |
| 20 | | 48.8 | 20 | 78.8 | | 37.0 B | | | | 8.40 B | | | 18 |
| | | | | | | | | | | 8.90 B | | | 19 |
| 21 | | 47.7 | 18 | 74.2 | | 30.7 B | | | | | | | 20 |
| 22 | | 57.0 | 17 | 83.7 | | 24.0 B | | | | 9.40 B | | | |
| 23 | | 67.1 | 20 | 116 | | 18.5 B | | | | 9.20 B | | | 21 |
| 24 | | 58.3 | 17 | 85.5 | | 14.4 B | | | | 8.90 B | | | 22 |
| 25 | | 55.2 | 15 | 71.5 | | 14.5 B | | | | 8.80 B | | | 23 |
| | | | | | | | | | | 8.40 B | | | 24 |
| 26 | | 71.0 | 26 | 159 | | 15.5 B | | | | | | | 25 |
| 27 | | 82.1 | 32 | 227 | | 16.2 B | | | | 8.80 B | | | |
| 28 | | 73.8 | 25 | 157 | | 15.0 B | | | | 8.80 B | | | 26 |
| 29 | | 66.1 | 19 | 109 | | 13.8 B | | | | 8.40 B | | | 27 |
| 30 | | 53.8 | 14 | 77.3 | | 13.8 B | | | | 8.80 B | | | 28 |
| 31 | | 62.7 | 17 | 121 | | | | | | 8.80 B | | | 29 |
| | | | | | | | | | | 8.40 B | | | 30 |
| | | | | | | | | | | | | | 31 |
| TOTAL | | 1 484.2 | | 3 035.3 | | 1 382.1 | | | | 384.00 | | | TOTAL |
| MEAN | | 47.9 | | 98.7 | | 46.4 | | | | 9.81 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 32 34 N
LONG 121 37 38 W
DRAINAGE AREA 3 510 km²
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 25 | 11:00 | 226 M | 8.0 | 170 K | 25 | 35 | 49 | 59 | 70 | 84 | 97 | 100 | | | | BNW |
| MAY 31 | 08:35 | 268 | 9.0 | 295 R | 19 | 23 | 32 | 45 | 55 | 73 | 86 | 94 | 98 | 100 | | BNW |
| JUL 15 | 14:05 | 456 | 7.0 | 821 R | 18 | 22 | 31 | 45 | 59 | 75 | 89 | 96 | 99 | 100 | | BNW |

M - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 1 |
| 2 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 2 |
| 3 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 3 |
| 4 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 4 |
| 5 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 5 |
| 6 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 6 |
| 7 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 7 |
| 8 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 8 |
| 9 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 9 |
| 10 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 10 |
| 11 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 11 |
| 12 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 12 |
| 13 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 13 |
| 14 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 14 |
| 15 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 15 |
| 16 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0.002 B | 0 | 0 | 16 |
| 17 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0.001 B | 0 | 0 | 17 |
| 18 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 18 |
| 19 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 19 |
| 20 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 20 |
| 21 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 21 |
| 22 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 22 |
| 23 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 23 |
| 24 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 24 |
| 25 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0.013 B | 5 | 0 | 25 |
| 26 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0.087 B | 5 | 0.03 | 26 |
| 27 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0.070 B | 5 | 0.04 | 27 |
| 28 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | | 0.148 B | 7 | 0.09 | 28 |
| 29 | | 0 B | 0 | 0 | | | | | | 0.248 B | 7 | 0.17 | 29 |
| 30 | | 0 B | 0 | 0 | | | | | | 0.404 B | 8 | 0.28 | 30 |
| 31 | | 0 B | 0 | 0 | | | | | | 0.837 B | 10 | 0.55 | 31 |
| TOTAL | | 0 | | 0 | | 0 | | 0 | | 1.588 | | 1.18 | TOTAL |
| MEAN | | 0 | | 0 | | 0 | | 0 | | 0.051 | | 0.04 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.5 | 0.806 B | 20 B | 1.67 | 12.0 | 4.51 | 11 B | 4.29 | 14.0 | 0.334 | 5 B | 0.17 | 1 |
| 2 | 0.5 | 2.07 B | 20 B | 3.68 | | 3.50 | 10 | 3.02 | 13.0 | 0.323 | 5 B | 0.14 | 2 |
| 3 | 0.5 | 3.90 B | 13 B | 4.38 | 10.0 | 2.62 | 8 B | 1.81 | | 0.288 | 5 | 0.13 | 3 |
| 4 | 0.5 | 8.28 B | 14 B | 7.61 | | 2.12 | 8 | 1.47 | | 0.264 | 5 | 0.11 | 4 |
| 5 | 0.8 | 7.84 B | 18 B | 13.3 | | 1.78 | 7 | 1.04 | | 0.251 | 5 | 0.11 | 5 |
| 6 | 0.5 | 8.28 B | 18 B | 11.4 | | 1.80 | 7 | 0.97 | | 0.231 | 5 | 0.10 | 6 |
| 7 | 0.1 | 7.81 B | 15 B | 10.3 | | 1.45 | 6 | 0.75 | | 0.211 | 5 | 0.11 | 7 |
| 8 | 0.1 | 7.62 B | 18 B | 13.0 | 12.0 | 1.31 | 8 B | 0.88 | | 0.205 | 7 | 0.12 | 8 |
| 9 | 2.0 | 7.38 | 18 B | 11.4 | | 1.19 | 8 | 0.81 | | 0.198 | 7 | 0.12 | 9 |
| 10 | 3.0 | 8.81 | 18 B | 10.3 | | 1.12 | 8 | 0.68 | 21.0 | 0.180 | 7 B | 0.11 | 10 |
| 11 | 4.0 | 8.88 | 13 B | 7.40 | 11.0 | 1.04 | 8 B | 0.65 | | 0.132 | 7 | 0.08 | 11 |
| 12 | 0.5 | 7.18 | 15 B | 8.33 | | 0.988 | 8 | 0.81 | | 0.110 | 8 | 0.06 | 12 |
| 13 | 0.2 | 8.35 | 18 B | 8.78 | | 0.940 | 8 | 0.69 | | 0.077 | 8 | 0.03 | 13 |
| 14 | 2.5 | 8.46 | 17 B | 10.1 | 8.0 | 0.891 | 8 B | 0.66 | | 0.093 | 8 | 0.04 | 14 |
| 15 | 0.5 | 7.83 | 14 B | 9.10 | | 0.826 | 8 | 0.63 | 18.0 | 0.068 | 8 B | 0.02 | 15 |
| 16 | 0.4 | 5.28 | 12 B | 5.47 | | 0.788 | 7 | 0.48 | | 0.008 | 8 | 0 | 16 |
| 17 | 0.5 | 5.46 | 10 B | 4.76 | | 0.710 | 8 | 0.48 | | 0.084 | 8 | 0.03 | 17 |
| 18 | 1.0 | 4.88 | 10 B | 3.87 | 12.0 | 0.675 | 8 B | 0.47 | | 0.132 | 8 | 0.07 | 18 |
| 19 | 2.0 | 3.81 | 7 B | 2.38 | | 0.675 | 10 | 0.58 | | 0.178 | 8 | 0.13 | 19 |
| 20 | 8.0 | 3.37 | 8 B | 1.76 | 9.0 | 0.887 | 10 B | 0.68 | | 0.205 | 11 | 0.19 | 20 |
| 21 | 10.0 | 3.08 | 8 B | 1.88 | | 0.858 | 9 | 0.81 | | 0.229 | 13 | 0.26 | 21 |
| 22 | 12.0 | 2.86 | 8 B | 1.66 | | 0.831 | 8 | 0.64 | 21.0 | 0.276 | 14 B | 0.33 | 22 |
| 23 | 11.0 | 3.16 | 7 B | 1.91 | | 0.818 | 7 | 0.39 | | 0.271 | 13 | 0.30 | 23 |
| 24 | 10.0 | 4.83 | 10 B | 4.17 | | 0.801 | 8 | 0.31 | | 0.284 | 12 | 0.27 | 24 |
| 25 | 10.0 | 7.64 | 20 B | 13.9 | | 0.843 | 8 | 0.28 | | 0.283 | 10 | 0.22 | 25 |
| 26 | 10.5 | 12.5 | 27 B | 29.2 | 10.0 | 0.888 | 8 B | 0.38 | | 0.230 | 8 | 0.16 | 26 |
| 27 | 8.5 | 13.5 | 22 B | 25.7 | | 0.848 | 8 | 0.34 | | 0.211 | 7 | 0.13 | 27 |
| 28 | 8.0 | 10.7 | 17 B | 15.7 | | 0.853 | 8 | 0.30 | | 0.181 | 8 | 0.10 | 28 |
| 29 | | 7.43 | 13 | 8.35 | | 0.814 | 8 | 0.18 | | 0.171 | 8 | 0.08 | 29 |
| 30 | 11.0 | 8.73 | 10 B | 6.85 | | 0.378 | 8 | 0.18 | | 0.210 | 8 | 0.11 | 30 |
| 31 | | | | | | 0.373 | 8 | 0.18 | | | | | 31 |
| TOTAL | | 188.018 | | 285.44 | | 35.217 | | 23.05 | | 5.841 | | 3.83 | TOTAL |
| MEAN | | 6.27 | | 9.51 | | 1.14 | | 0.74 | | 0.195 | | 0.13 | MEAN |

MANITOBA

ANTLER RIVER NEAR MELITA - STATION NO. 05MF002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.218 | 7 | 0.13 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 2 | | 0.243 | 8 | 0.17 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 3 | | 0.267 | 8 | 0.18 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 4 | 17.0 | 0.231 | 8 S | 0.16 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 5 | | 0.223 | 8 | 0.15 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 6 | | 0.218 | 8 | 0.15 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 7 | | 0.207 | 8 | 0.14 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 8 | | 0.188 | 8 | 0.12 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 9 | | 0.148 | 8 | 0.10 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 10 | | 0.151 | 8 | 0.10 | | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 11 | 23.0 | 0.135 | 8 S | 0.09 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 12 | | 0.083 | 8 | 0.05 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 13 | | 0.059 | 8 | 0.04 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 14 | | 0.040 | 8 | 0.03 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 15 | | 0.029 | 8 | 0.02 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 16 | | 0.008 | 8 | 0.01 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 17 | | 0.005 | 8 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 18 | 23.0 | 0.002 | 8 S | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 19 | | 0.001 | 2 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 20 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| 21 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 22 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 23 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 24 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 25 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 26 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 27 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 28 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 29 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 2 |
| 30 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 3 |
| 31 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 3 |
| TOTAL | | 2.438 | | 1.85 | | 0 | | 0 | | 0 | | 0 | TOTA |
| MEAN | | 0.078 | | 0.05 | | 0 | | 0 | | 0 | | 0 | MEA |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | |
| 2 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 2 |
| 3 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 3 |
| 4 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 4 |
| 5 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 5 |
| 6 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | |
| 7 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 6 |
| 8 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 7 |
| 9 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 8 |
| 10 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 9 |
| 11 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 10 |
| 12 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 B | 0 | 0 | 11 |
| 13 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 12 |
| 14 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 13 |
| 15 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 14 |
| 16 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 15 |
| 17 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 16 |
| 18 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 17 |
| 19 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 18 |
| 20 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 19 |
| 21 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 20 |
| 22 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 21 |
| 23 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 22 |
| 24 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 23 |
| 25 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 24 |
| 26 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 25 |
| 27 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 26 |
| 28 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 27 |
| 29 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 28 |
| 30 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 29 |
| 31 | | 0 | 0 | 0 | | 0 B | 0 | 0 | | 0 B | 0 | 0 | 30 |
| | | | | | | | | | | | | 0 | 31 |
| TOTAL | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | TOTAL |
| MEAN | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 14 | |
| MAXIMUM DAILY | 27 | ON APR 26 |
| MINIMUM DAILY | 0 | ON JAN 01 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 0.78 | |
| MAXIMUM DAILY | 29.2 | ON APR 26 |
| MINIMUM DAILY | 0 | ON JAN 01 |

TOTAL SUSPENDED SEDIMENT LOAD 285.13 t

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 34 N
LONG 101 02 58 W
DRAINAGE AREA 3 210 km²
NATURAL FLOW

MANITOBA

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 21.2 B | 192 | 352 | | 21.9 B | 152 | 288 | | 22.1 B | 80 | 183 | 1 |
| 2 | | 21.5 B | 197 | 366 | | 22.6 B | 149 | 291 | | 21.6 B | 78 | 142 | 2 |
| 3 | | 21.6 B | 200 | 377 | | 22.8 B | 148 | 288 | | 21.4 B | 73 | 135 | 3 |
| 4 | | 21.8 B | 205 | 386 | | 22.8 B | 142 | 277 | | 21.8 B | 70 | 132 | 4 |
| 5 | | 22.2 B | 209 | 401 | | 22.2 B | 138 | 267 | | 22.2 B | 68 | 130 | 5 |
| 6 | | 22.5 B | 211 | 410 | | 21.8 B | 138 | 284 | | 23.1 B | 68 | 132 | 6 |
| 7 | | 22.4 B | 211 | 408 | | 21.5 B | 133 | 247 | | 24.5 B | 64 | 135 | 7 |
| 8 | | 22.6 B | 211 | 412 | | 21.3 B | 129 | 237 | 0.5 | 24.2 B | 63 S | 132 | 8 |
| 9 | | 22.5 B | 211 | 410 | 0.5 | 21.2 B | 126 S | 231 | | 24.0 B | 63 | 131 | 9 |
| 10 | 0.5 | 22.5 B | 211 S | 410 | | 21.2 B | 124 | 227 | | 24.4 B | 65 | 137 | 10 |
| 11 | | 22.5 B | 210 | 408 | | 21.5 B | 122 | 227 | | 25.5 B | 65 | 145 | 11 |
| 12 | | 22.6 B | 209 | 406 | | 21.2 B | 120 | 220 | | 26.2 B | 65 | 149 | 12 |
| 13 | | 22.1 B | 209 | 398 | | 21.3 B | 118 | 217 | | 25.6 B | 66 | 152 | 13 |
| 14 | | 22.6 B | 209 | 408 | | 21.6 B | 115 | 215 | | 25.5 B | 69 | 153 | 14 |
| 15 | | 22.8 B | 208 | 414 | | 21.7 B | 113 | 212 | | 26.4 B | 70 | 160 | 15 |
| 16 | | 22.8 B | 208 | 414 | | 21.4 B | 110 | 203 | | 27.2 B | 70 | 165 | 16 |
| 17 | | 22.6 B | 208 | 412 | | 21.4 B | 108 | 200 | | 26.1 B | 70 | 170 | 17 |
| 18 | | 22.5 B | 208 | 406 | | 21.8 B | 108 | 196 | | 25.9 B | 70 | 175 | 18 |
| 19 | | 22.4 B | 210 | 405 | | 22.2 B | 103 | 198 | | 25.1 B | 69 | 173 | 19 |
| 20 | | 22.7 B | 209 | 410 | | 22.5 B | 100 | 194 | | 26.5 B | 70 | 172 | 20 |
| 21 | | 23.0 B | 205 | 407 | | 22.5 B | 97 | 189 | | 28.1 B | 72 | 175 | 21 |
| 22 | | 22.6 B | 201 | 392 | | 22.0 B | 94 | 179 | | 28.5 B | 73 | 180 | 22 |
| 23 | | 22.1 B | 197 | 376 | | 21.0 B | 93 | 188 | | 28.3 B | 73 | 178 | 23 |
| 24 | | 21.9 B | 192 | 383 | | 21.4 B | 91 | 168 | | 27.6 B | 72 | 173 | 24 |
| 25 | | 21.5 B | 188 | 349 | | 22.0 B | 88 | 187 | | 27.9 B | 71 | 171 | 25 |
| 26 | | 21.5 B | 184 | 342 | | 22.2 B | 85 | 183 | | 28.6 B | 71 | 175 | 26 |
| 27 | | 22.0 B | 179 | 340 | | 22.3 B | 83 | 180 | | 28.3 B | 73 | 185 | 27 |
| 28 | | 22.4 B | 174 | 337 | | 22.4 B | 82 | 189 | | 30.2 B | 78 | 186 | 28 |
| 29 | | 23.1 B | 168 | 335 | | | | | | 31.8 B | 78 | 208 | 29 |
| 30 | | 23.1 B | 162 | 323 | | | | | | 36.4 B | 80 | 252 | 30 |
| 31 | | 22.1 B | 157 | 300 | | | | | | 47.6 B | 89 | 407 | 31 |
| TOTAL | | 692.2 | | 11 879 | | 611.1 | | 6 045 | | 845.5 | | 5 274 | TOTAL |
| MEAN | | 22.3 | | 383 | | 21.8 | | 218 | | 27.3 | | 170 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 58.6 B | 138 | 699 | 9.0 | 202 | 541 S | 9 440 | 19.0 | 132 | 151 S | 1 720 | 1 |
| 2 | | 83.0 B | 188 | 1 010 | 10.0 | 201 | 545 S | 9 480 | | 131 | 154 | 1 740 | 2 |
| 3 | | 78.2 B | 240 | 1 840 | 9.0 | 201 | 488 S | 8 810 | 16.0 | 126 | 143 S | 1 580 | 3 |
| 4 | | 86.6 B | 283 | 2 380 | 9.0 | 200 | 474 S | 8 190 | 14.0 | 120 | 138 S | 1 410 | 4 |
| 5 | | 112 B | 308 | 2 950 | 10.0 | 200 | 419 S | 7 240 | 16.0 | 111 | 140 S | 1 340 | 5 |
| 6 | | 117 B | 308 | 3 110 | 10.0 | 199 | 385 S | 6 640 | 16.0 | 111 | 133 S | 1 280 | 6 |
| 7 | | 113 B | 304 | 2 870 | | 193 | 388 | 6 440 | 17.0 | 107 | 128 S | 1 180 | 7 |
| 8 | | 106 B | 271 | 2 480 | 12.0 | 189 | 326 S | 5 320 | | 104 | 139 | 1 250 | 8 |
| 9 | | 103 B | 269 | 2 300 | 12.0 | 188 | 314 S | 5 130 | 18.0 | 101 | 141 S | 1 230 | 9 |
| 10 | | 101 B | 304 | 2 850 | 11.5 | 187 | 332 S | 5 380 | 20.0 | 98.2 | 137 S | 1 140 | 10 |
| 11 | 1.0 | 117 B | 428 S | 4 330 | 9.0 | 180 | 314 S | 4 880 | 22.0 | 90.8 | 143 S | 1 120 | 11 |
| 12 | 0.1 | 124 B | 432 S | 4 630 | | 179 | 311 | 4 810 | 21.0 | 88.8 | 147 S | 1 100 | 12 |
| 13 | 0.1 | 112 B | 536 S | 5 180 | 8.0 | 183 | 278 S | 4 400 | 19.0 | 84.4 | 144 S | 1 080 | 13 |
| 14 | 0.1 | 114 B | 583 S | 5 640 | 7.0 | 187 | 260 S | 4 200 | 19.5 | 81.0 | 144 S | 1 010 | 14 |
| 15 | 0.1 | 143 B | 574 S | 7 080 | 7.0 | 187 | 258 S | 4 140 | 13.0 | 75.2 | 148 S | 982 | 15 |
| 16 | 0.1 | 186 B | 548 S | 12 200 | 9.0 | 187 | 227 S | 3 870 | 18.0 | 74.0 | 138 S | 897 | 16 |
| 17 | 1.0 | 180 B | 730 S | 12 300 | | 185 | 211 | 3 370 | 20.0 | 77.7 | 159 S | 1 070 | 17 |
| 18 | 1.0 | 178 B | 686 S | 10 800 | 12.0 | 181 | 212 S | 3 320 | | 77.5 | 160 | 1 070 | 18 |
| 19 | 4.0 | 213 | 685 S | 17 800 | 11.0 | 179 | 217 S | 3 380 | 20.0 | 77.1 | 161 S | 1 070 | 19 |
| 20 | 4.0 | 182 | 703 S | 9 840 | | 178 | 221 | 3 380 | 20.0 | 78.8 | 161 S | 1 080 | 20 |
| 21 | 7.0 | 147 | 541 S | 8 870 | | 178 | 214 | 3 350 | 21.0 | 78.5 | 159 S | 1 180 | 21 |
| 22 | 8.0 | 141 | 470 S | 5 730 | | 172 | 204 | 3 030 | 21.0 | 87.5 | 286 S | 2 260 | 22 |
| 23 | | 138 | 447 | 5 330 | | 169 | 183 | 2 820 | 22.0 | 90.0 | 207 S | 1 610 | 23 |
| 24 | | 141 | 462 | 5 380 | | 165 | 183 | 2 610 | 23.0 | 82.2 | 199 S | 1 200 | 24 |
| 25 | 12.0 | 161 | 472 S | 8 570 | 15.0 | 162 | 178 S | 2 480 | 24.0 | 78.6 | 172 S | 1 170 | 25 |
| 26 | 9.0 | 187 | 582 S | 8 080 | 15.0 | 157 | 180 S | 2 580 | 22.0 | 77.5 | 181 S | 1 210 | 26 |
| 27 | 7.0 | 189 | 539 S | 11 000 | 14.0 | 152 | 202 S | 2 880 | 22.0 | 76.4 | 181 S | 1 180 | 27 |
| 28 | 8.5 | 184 | 586 S | 9 660 | 13.0 | 151 | 195 S | 2 540 | | 72.1 | 181 | 1 130 | 28 |
| 29 | 7.0 | 188 | 546 S | 8 920 | 15.0 | 148 | 180 S | 2 300 | | 69.2 | 184 | 1 100 | 29 |
| 30 | | 202 | 585 | 10 200 | 15.0 | 145 | 174 S | 2 180 | 20.0 | 67.5 | 208 S | 1 210 | 30 |
| 31 | | | | | 18.0 | 139 | 182 S | 1 980 | | | | | 31 |
| TOTAL | | 4 157.4 | | 190 718 | | 5 521 | | 135 740 | | 2 732.9 | | 37 669 | TOTAL |
| MEAN | | 138 | | 6 380 | | 178 | | 4 510 | | 91.1 | | 1 280 | MEAN |

MANITOBA

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05NJ001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20.0 | 66.0 | 206 S | 1 170 | 28.0 | 37.1 | 182 S | 815 | 25.0 | 32.7 | 181 S | 511 | 1 |
| 2 | | 63.0 | 198 | 1 080 | | 38.8 | 187 | 824 | 26.0 | 32.8 | 188 S | 528 | 2 |
| 3 | 22.0 | 58.5 | 203 S | 1 030 | 27.0 | 38.8 | 218 S | 741 | 24.0 | 31.8 | 184 S | 481 | 3 |
| 4 | 20.0 | 55.1 | 198 S | 947 | 28.0 | 40.4 | 212 S | 740 | | 31.6 | 187 | 429 | 4 |
| 5 | | 51.8 | 187 | 834 | 28.0 | 40.8 | 198 S | 698 | | 30.7 | 180 | 398 | 5 |
| 6 | 23.0 | 47.8 | 184 S | 761 | | 40.2 | 215 | 747 | 18.0 | 29.7 | 142 S | 384 | 6 |
| 7 | 25.0 | 41.7 | 180 S | 665 | 26.0 | 40.1 | 188 S | 678 | 18.0 | 29.2 | 135 S | 341 | 7 |
| 8 | 27.0 | 42.3 | 191 S | 698 | 24.0 | 39.8 | 187 S | 643 | | 30.0 | 135 | 350 | 8 |
| 9 | 26.0 | 42.3 | 198 S | 724 | 24.0 | 38.4 | 208 S | 701 | 17.0 | 31.5 | 145 S | 395 | 9 |
| 10 | | 40.7 | 211 | 742 | | 40.4 | 204 | 712 | | 33.6 | 178 | 511 | 10 |
| 11 | 24.0 | 38.0 | 236 S | 775 | 25.0 | 40.1 | 183 S | 634 | 14.0 | 33.6 | 188 S | 549 | 11 |
| 12 | 24.0 | 38.7 | 225 S | 713 | 24.0 | 39.8 | 176 S | 602 | 15.0 | 32.8 | 147 S | 414 | 12 |
| 13 | 26.0 | 36.0 | 195 S | 593 | 25.0 | 39.8 | 182 S | 623 | | 30.6 | 109 | 283 | 13 |
| 14 | 28.0 | 33.0 A | 180 S | 513 | 25.0 | 38.2 | 180 S | 610 | 15.0 | 29.7 | 121 S | 310 | 14 |
| 15 | 27.0 | 28.0 | 136 S | 328 | 25.0 | 39.0 | 188 S | 588 | | 31.5 | 152 | 414 | 15 |
| 16 | 26.0 | 29.7 | 148 S | 375 | 27.0 | 38.8 | 174 S | 583 | 14.0 | 31.4 | 157 S | 422 | 16 |
| 17 | | 30.7 | 181 | 480 | | 38.5 | 174 | 580 | | 33.2 | 188 | 602 | 17 |
| 18 | 26.0 | 30.6 | 184 S | 511 | 24.0 | 39.1 | 173 S | 584 | | 34.6 | 194 | 583 | 18 |
| 19 | 26.0 | 29.5 | 178 S | 448 | 23.0 | 37.7 | 188 S | 550 | | 34.8 | 218 | 690 | 19 |
| 20 | 27.0 | 28.8 | 182 S | 494 | | 38.4 | 188 | 528 | | 34.7 | 218 | 654 | 20 |
| 21 | 26.0 | 30.7 | 181 S | 507 | 20.0 | 40.5 | 150 S | 525 | 8.0 | 33.0 | 210 S | 599 | 21 |
| 22 | 26.0 | 30.6 | 184 S | 513 | 20.0 | 40.1 | 148 S | 513 | 8.0 | 33.3 | 198 S | 584 | 22 |
| 23 | 25.0 | 28.8 | 180 S | 448 | | 38.7 | 148 | 495 | 9.0 | 33.2 | 178 S | 505 | 23 |
| 24 | 25.0 | 28.3 | 192 S | 469 | 22.0 | 39.0 | 157 S | 529 | | 31.5 | 158 | 430 | 24 |
| 25 | | 28.7 | 199 | 493 | 23.0 | 38.8 | 181 S | 608 | | 28.5 | 149 | 380 | 25 |
| 26 | 24.0 | 28.4 | 188 S | 503 | 23.0 | 38.7 | 180 S | 617 | 14.3 | 27.7 | 147 S | 352 | 26 |
| 27 | 26.0 | 30.3 | 184 S | 482 | 24.0 | 38.4 | 173 S | 574 | | 26.8 | 147 | 342 | 27 |
| 28 | | 30.6 | 184 | 487 | | 37.3 | 188 | 535 | 13.0 | 27.0 | 145 S | 338 | 28 |
| 29 | 26.0 | 30.8 | 108 S | 285 | | 36.5 | 180 | 505 | | 26.6 | 143 | 329 | 29 |
| 30 | 25.0 | 32.0 | 123 S | 340 | 26.0 | 36.1 | 184 S | 487 | | 27.2 | 140 | 329 | 30 |
| 31 | 25.0 | 34.1 | 184 S | 542 | | 33.4 | 180 | 433 | | | | | 31 |
| TOTAL | | 1 184.1 | | 18 893 | | 1 204.2 | | 18 884 | | 936.2 | | 13 222 | TOTAL |
| MEAN | | 37.6 | | 609 | | 38.8 | | 599 | | 31.2 | | 441 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 26.8 | 184 | 408 | | 20.4 | 88 | 116 | | 18.0 B | 139 | 192 | 1 |
| 2 | | 30.1 | 178 | 463 | | 22.0 | 74 | 141 | | 13.7 B | 127 | 150 | 2 |
| 3 | 10.0 | 26.2 | 187 S | 421 | | 25.8 | 104 | 232 | | 12.5 B | 118 | 124 | 3 |
| 4 | 10.0 | 29.1 | 188 S | 466 | | 28.5 | 137 | 348 | | 15.3 B | 103 | 138 | 4 |
| 5 | 9.0 | 29.8 | 185 S | 466 | | 32.8 | 157 | 446 | | 21.1 B | 92 | 168 | 5 |
| 6 | | 30.0 | 150 | 389 | | 33.7 | 166 | 483 | | 21.8 B | 89 | 181 | 6 |
| 7 | 8.0 | 28.8 | 145 S | 356 | | 35.2 | 176 | 532 | | 20.7 B | 78 | 140 | 7 |
| 8 | | 27.4 | 138 | 329 | | 38.8 | 197 | 660 | | 19.8 B | 73 | 126 | 8 |
| 9 | 9.0 | 26.4 | 135 S | 308 | | 38.3 | 193 | 855 | | 20.1 B | 68 | 118 | 9 |
| 10 | | 26.2 | 132 | 299 | | 39.0 | 188 | 637 | | 19.8 B | 84 | 109 | 10 |
| 11 | 7.0 | 25.9 | 130 S | 291 | | 37.3 | 185 | 595 | | 20.3 B | 89 | 103 | 11 |
| 12 | | 25.2 | 127 | 277 | | 35.6 | 182 | 585 | | 20.6 B | 84 | 96.1 | 12 |
| 13 | | 25.3 | 126 | 273 | | 35.6 | 178 | 551 | | 21.4 B | 49 | 90.8 | 13 |
| 14 | | 25.3 | 122 | 267 | | 35.0 | 175 | 529 | 0.5 | 21.0 B | 41 S | 74.4 | 14 |
| 15 | | 24.8 | 130 | 255 | | 34.2 | 170 | 502 | | 20.4 B | 39 | 68.7 | 15 |
| 16 | 5.0 | 24.1 | 117 S | 244 | | 33.2 | 165 | 473 | | 19.8 B | 38 | 65.0 | 16 |
| 17 | | 23.1 | 113 | 226 | | 33.1 | 159 | 456 | | 19.8 B | 38 | 65.3 | 17 |
| 18 | | 22.4 | 110 | 213 | | 33.2 | 153 | 439 | | 20.6 B | 38 | 67.8 | 18 |
| 19 | | 22.3 | 108 | 204 | | 32.4 | 147 | 412 | | 21.2 B | 38 | 69.5 | 19 |
| 20 | | 22.8 | 103 | 201 | | 32.3 | 141 | 393 | | 21.2 B | 37 | 67.8 | 20 |
| 21 | | 22.8 | 99 | 195 | | 31.8 | 135 | 372 | | 20.8 B | 38 | 65.0 | 21 |
| 22 | 7.0 | 23.7 | 95 S | 186 | | 31.0 B | 141 | 378 | | 20.0 B | 36 | 62.2 | 22 |
| 23 | | 22.4 | 92 | 178 | | 30.9 B | 163 | 436 | | 19.5 B | 38 | 60.7 | 23 |
| 24 | | 22.2 | 90 | 173 | | 21.0 B | 147 | 267 | | 19.3 B | 35 | 58.4 | 24 |
| 25 | | 21.3 | 88 | 158 | | 23.8 B | 149 | 306 | | 19.3 B | 34 | 56.7 | 25 |
| 26 | | 21.0 | 84 | 152 | | 19.8 B | 140 | 241 | | 19.2 B | 34 | 56.4 | 26 |
| 27 | 7.0 | 21.0 | 78 S | 138 | | 12.1 B | 131 | 137 | | 19.0 B | 33 | 54.2 | 27 |
| 28 | | 20.5 | 85 | 150 | | 13.0 B | 123 | 138 | | 19.1 B | 32 | 52.8 | 28 |
| 29 | | 19.3 | 86 | 86.7 | | 23.2 B | 158 | 317 | | 18.7 B | 31 | 50.1 | 29 |
| 30 | | 21.2 | 73 | 134 | | 20.8 B | 151 | 271 | | 18.0 B | 31 | 48.2 | 30 |
| 31 | 5.0 | 20.1 | 87 S | 118 | | | | | | 17.4 B | 30 | 45.1 | 31 |
| TOTAL | | 751.0 | | 7 872.7 | | 885.4 | | 12 028 | | 597.8 | | 2 801.3 | TOTAL |
| MEAN | | 24.5 | | 254 | | 29.5 | | 401 | | 19.3 | | 90.4 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 287 | |
| MAXIMUM DAILY | 885 | ON APR 19 |
| MINIMUM DAILY | 30 | ON DEC 31 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 1 270 | |
| MAXIMUM DAILY | 17 800 | ON APR 19 |
| MINIMUM DAILY | 45.1 | ON DEC 31 |

TOTAL SUSPENDED SEDIMENT LOAD 464 897.8 t

A - MANUAL GAUGE  B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 09 N
LONG 97 24 10 W
DRAINAGE AREA 153 000 km²
REGULATED FLOW

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 14 | 15:00 | 104 | 1.0 | 538 R | 45 | 58 | 80 | 92 | 98 | 97 | 98 | 99 | 100 | | | BNW |
| APR 19 | 17:30 | 213 H | 7.0 | 1 070 K | 30 | 39 | 44 | 88 | 84 | 93 | 98 | 97 | 100 | | | BNW |
| APR 27 | 17:55 | 199 H | 7.0 | 882 K | 28 | 36 | 56 | 73 | 88 | 94 | 98 | 100 | | | | BNW |
| APR 28 | 10:30 | 201 | 7.0 | 831 R | 33 | 43 | 60 | 79 | 89 | 96 | 99 | 100 | | | | BNW |
| MAY 02 | 18:10 | 201 H | 10.0 | 559 K | 41 | 54 | 73 | 90 | 96 | 98 | 99 | 100 | | | | BNW |
| MAY 10 | 10:30 | 188 | 11.0 | 345 R | 27 | 38 | 55 | 72 | 85 | 93 | 97 | 99 | 100 | | | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MANITOBA

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 23.1 B | 85 | 172 | | 24.4 B | 79 | 167 | | 20.0 B | 83 | 107 | 1 |
| 2 | | 23.1 B | 85 | 170 | | 23.3 B | 79 | 159 | | 19.7 B | 80 | 102 | 2 |
| 3 | | 23.3 B | 85 | 171 | | 23.1 B | 79 | 158 | | 19.6 B | 80 | 103 | 3 |
| 4 | | 23.7 B | 84 | 172 | | 22.7 B | 79 | 155 | | 19.8 B | 80 | 103 | 4 |
| 5 | | 23.9 B | 82 | 168 | | 22.7 B | 80 | 157 | | 19.5 B | 84 | 97.7 | 5 |
| 6 | | 23.8 B | 81 | 167 | | 22.5 B | 80 | 156 | | 23.6 B | 87 | 118 | 6 |
| 7 | | 23.8 B | 80 | 165 | | 23.0 B | 80 | 159 | | 28.3 B | 88 | 137 | 7 |
| 8 | | 23.8 B | 80 | 165 | | 22.3 B | 80 | 153 | | 28.4 B | 85 | 140 | 8 |
| 9 | | 24.2 B | 79 | 165 | 0.5 | 22.6 B | 80 B | 158 | | 27.6 B | 84 | 130 | 9 |
| 10 | | 24.4 B | 78 | 164 | | 23.2 B | 80 | 160 | | 27.2 B | 83 | 125 | 10 |
| 11 | | 24.6 B | 77 | 164 | | 23.2 B | 80 | 160 | | 28.9 B | 81 | 127 | 11 |
| 12 | | 25.2 B | 78 | 165 | | 22.5 B | 80 | 156 | | 30.2 B | 49 | 128 | 12 |
| 13 | 0.5 | 25.0 B | 78 S | 162 | | 22.7 B | 81 | 159 | | 30.6 B | 48 | 122 | 13 |
| 14 | | 24.7 B | 78 | 160 | | 21.6 B | 81 | 153 | 0.5 | 31.4 B | 44 S | 119 | 14 |
| 15 | | 24.7 B | 78 | 162 | | 22.7 B | 81 | 159 | | 31.4 B | 43 | 117 | 15 |
| 16 | | 25.1 B | 78 | 165 | | 22.7 B | 81 | 159 | | 29.5 B | 42 | 107 | 16 |
| 17 | | 25.0 B | 78 | 164 | | 22.7 B | 79 | 155 | | 28.9 B | 41 | 102 | 17 |
| 18 | | 25.3 B | 78 | 165 | | 21.6 B | 78 | 145 | | 30.2 B | 41 | 107 | 18 |
| 19 | | 25.1 B | 78 | 165 | | 20.4 B | 78 | 134 | | 30.1 B | 44 | 114 | 19 |
| 20 | | 24.8 B | 79 | 169 | | 20.6 B | 79 | 135 | | 29.6 B | 47 | 120 | 20 |
| 21 | | 24.5 B | 78 | 165 | | 21.8 B | 74 | 139 | | 29.9 B | 48 | 127 | 21 |
| 22 | | 24.9 B | 78 | 168 | | 21.4 B | 72 | 133 | | 30.6 B | 50 | 132 | 22 |
| 23 | | 25.6 B | 78 | 173 | | 21.3 B | 70 | 128 | | 30.7 B | 53 | 141 | 23 |
| 24 | | 25.4 B | 78 | 171 | | 20.7 B | 68 | 122 | | 31.6 B | 51 | 167 | 24 |
| 25 | | 25.3 B | 78 | 172 | | 20.8 B | 67 | 119 | | 33.1 B | 59 | 197 | 25 |
| 26 | | 25.0 B | 78 | 171 | | 20.0 B | 65 | 112 | | 36.1 B | 75 | 234 | 26 |
| 27 | | 24.6 B | 78 | 168 | | 18.5 B | 65 | 104 | | 40.7 B | 82 | 288 | 27 |
| 28 | | 24.1 B | 78 | 164 | | 20.0 B | 64 | 111 | | 41.8 B | 88 | 318 | 28 |
| 29 | | 25.0 B | 78 | 171 | | | | | | 48.7 B | 83 | 351 | 29 |
| 30 | | 25.1 B | 78 | 168 | | | | | | 58.2 B | 103 | 500 | 30 |
| 31 | | 24.6 B | 78 | 169 | | | | | | 93.6 B | 133 | 1 080 | 31 |
| TOTAL | | 781.3 | | 5 193 | | 615.4 | | 4 087 | | 1 008.8 | | 5 888.7 | TOTAL |
| MEAN | | 24.8 | | 166 | | 22.0 | | 145 | | 32.5 | | 190 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 86.0 B | 186 | 1 380 | 8.5 | 274 | 488 S | 11 800 | 14.0 | 129 | 208 S | 2 300 | 1 |
| 2 | 0.5 | 131 B | 305 S | 3 320 | 10.0 | 288 | 544 S | 12 000 | | 121 | 180 | 1 880 | 2 |
| 3 | | 183 B | 231 | 3 280 | 8.5 | 337 | 428 S | 8 780 | | 115 | 185 | 1 840 | 3 |
| 4 | | 188 B | 233 | 3 380 | 8.0 | 321 | 418 S | 7 840 | | 111 | 187 | 1 730 | 4 |
| 5 | | 192 B | 222 | 3 680 | 10.5 | 309 | 318 S | 8 740 | | 108 | 193 | 1 800 | 5 |
| 6 | | 199 B | 215 | 3 710 | 10.5 | 304 | 303 S | 8 340 | 15.0 | 105 | 197 S | 1 780 | 6 |
| 7 | 0.5 | 208 B | 209 S | 3 780 | 10.5 | 300 | 281 S | 4 880 | 15.0 | 100 | 171 S | 1 480 | 7 |
| 8 | | 226 B | 211 | 4 130 | | 288 | 285 | 4 490 | 15.0 | 84.4 | 186 S | 1 350 | 8 |
| 9 | | 261 B | 288 | 7 030 | 12.5 | 284 | 288 S | 4 840 | 17.0 | 89.2 | 188 S | 1 290 | 9 |
| 10 | 0.1 | 306 B | 818 S | 16 400 | 12.0 | 284 | 330 S | 8 530 | | 85.5 | 188 | 1 230 | 10 |
| 11 | | 334 A | 1 030 | 29 700 | 10.0 | 284 | 326 S | 8 480 | | 82.8 | 187 | 1 200 | 11 |
| 12 | 1.0 | 372 A | 1 010 S | 33 700 | | 283 | 363 | 8 880 | | 80.8 | 186 | 1 180 | 12 |
| 13 | | 348 | 788 | 18 100 | 8.0 | 285 | 386 S | 8 800 | | 78.0 | 187 | 1 140 | 13 |
| 14 | | 224 | 680 | 11 400 | | 285 | 389 | 8 060 | 15.0 | 78.1 | 188 S | 1 180 | 14 |
| 15 | 1.5 | 212 | 488 S | 9 140 | 8.0 | 280 | 302 S | 4 980 | 17.0 | 78.8 | 178 S | 1 180 | 15 |
| 16 | 1.5 | 200 | 455 S | 7 880 | 7.0 | 288 | 275 S | 4 470 | 17.0 | 78.5 | 188 S | 1 350 | 16 |
| 17 | 2.0 | 190 | 383 S | 6 080 | 10.0 | 284 | 283 S | 4 180 | 15.0 | 78.2 | 181 S | 1 220 | 17 |
| 18 | 3.0 | 183 | 331 S | 5 230 | 11.0 | 282 | 264 S | 4 155 | 20.0 | 78.0 | 170 S | 1 150 | 18 |
| 19 | 4.5 | 178 | 339 S | 5 210 | 10.0 | 281 | 276 S | 4 320 | 19.0 | 77.8 | 175 S | 1 170 | 19 |
| 20 | 5.0 | 173 | 462 S | 6 910 | 10.0 | 281 | 267 S | 4 030 | 18.0 | 78.7 | 174 S | 1 150 | 20 |
| 21 | 5.5 | 172 | 1 280 S | 18 600 | 13.0 | 277 | 234 S | 3 880 | | 75.5 | 174 | 1 140 | 21 |
| 22 | 7.5 | 165 | 380 S | 5 780 | 13.0 | 274 | 258 S | 3 880 | 20.0 | 76.9 | 184 S | 1 220 | 22 |
| 23 | 8.5 | 224 | 473 S | 8 150 | 13.0 | 271 | 217 S | 3 210 | 20.0 | 78.1 | 185 S | 1 320 | 23 |
| 24 | 9.0 | 265 | 887 S | 12 900 | 14.0 | 269 | 236 S | 3 450 | 20.0 | 76.3 | 181 S | 1 280 | 24 |
| 25 | 9.5 | 272 | 883 S | 15 600 | 13.0 | 264 | 241 S | 3 410 | 21.0 | 73.0 | 185 S | 1 170 | 25 |
| 26 | 9.0 | 268 | 736 S | 15 300 | 14.0 | 260 | 209 S | 2 880 | | 70.3 | 211 | 1 280 | 26 |
| 27 | 8.0 | 295 | 772 S | 15 700 | | 264 | 211 | 2 810 | 20.0 | 88.8 | 206 S | 1 880 | 27 |
| 28 | 8.5 | 288 | 847 S | 15 700 | | 262 | 212 | 2 780 | 20.0 | 85.7 | 222 S | 1 280 | 28 |
| 29 | 8.0 | 295 | 861 S | 17 400 | | 265 | 217 | 2 720 | 19.0 | 81.1 | 182 S | 861 | 29 |
| 30 | 7.0 | 287 | 889 S | 16 800 | 15.0 | 260 | 241 S | 2 830 | 18.0 | 86.8 | 186 S | 947 | 30 |
| 31 | | | | | 15.0 | 135 | 247 S | 2 880 | | | | | 31 |
| TOTAL | | 5 755.0 | | 320 940 | | 5 805 | | 151 850 | | 2 548.5 | | 40 672 | TOTAL |
| MEAN | | 225 | | 10 700 | | 187 | | 5 020 | | 85.0 | | 1 380 | MEAN |

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16.0 | 51.3 | 164 S | 727 | 25.0 | 48.0 | 127 S | 527 | 24.0 | 36.1 | 137 S | 418 | 1 |
| 2 | 16.0 | 48.3 | 167 S | 780 | 24.0 | 47.7 | 122 S | 503 | | 34.4 | 137 | 407 | 2 |
| 3 | | 45.8 | 190 | 752 | | 48.8 | 128 | 519 | 22.0 | 33.0 | 121 S | 345 | 3 |
| 4 | 16.0 | 45.0 | 178 S | 692 | 26.0 | 48.5 | 136 S | 546 | | 31.1 | 104 | 279 | 4 |
| 5 | 17.0 | 43.7 | 133 S | 502 | | 46.2 | 134 | 535 | | 28.9 | 93 | 232 | 5 |
| 6 | 23.0 | 42.0 | 128 S | 484 | | 45.8 | 133 | 527 | | 27.3 | 85 | 200 | 6 |
| 7 | 23.0 | 38.6 | 174 S | 602 | | 46.3 | 131 | 524 | | 25.8 | 82 | 183 | 7 |
| 8 | 24.0 | 38.6 | 137 S | 404 | | 45.8 | 130 | 514 | 17.0 | 24.6 | 80 S | 170 | 8 |
| 9 | 24.0 | 34.9 | 117 S | 353 | 24.0 | 45.8 | 128 S | 508 | 15.0 | 24.3 | 75 S | 157 | 9 |
| 10 | | 34.7 | 144 | 432 | | 45.8 | 128 | 495 | | 24.0 | 72 | 149 | 10 |
| 11 | 24.0 | 34.2 | 157 S | 484 | 22.0 | 45.7 | 125 S | 494 | | 24.1 | 71 | 148 | 11 |
| 12 | 22.0 | 33.5 | 138 S | 402 | 22.0 | 45.7 | 123 S | 486 | | 24.1 | 71 | 148 | 12 |
| 13 | 23.0 | 32.4 | 113 S | 316 | 23.0 | 45.2 | 123 S | 480 | | 25.6 | 71 | 157 | 13 |
| 14 | 24.0 | 31.3 | 110 S | 297 | 22.0 | 45.0 | 126 S | 486 | 13.0 | 27.9 | 75 S | 181 | 14 |
| 15 | 25.0 | 30.1 | 105 S | 273 | 22.0 | 44.8 | 131 S | 508 | | 31.3 | 79 | 214 | 15 |
| 16 | 24.0 | 30.5 | 98 S | 281 | | 45.3 | 134 | 524 | | 32.4 | 83 | 232 | 16 |
| 17 | | 31.2 | 105 | 286 | 22.0 | 46.5 | 126 S | 503 | | 33.4 | 87 | 251 | 17 |
| 18 | 22.0 | 32.6 | 115 S | 324 | 22.0 | 46.1 | 126 S | 487 | | 33.7 | 90 | 262 | 18 |
| 19 | 26.0 | 31.8 | 102 S | 281 | 21.0 | 44.2 | 133 S | 508 | | 34.5 | 93 | 277 | 19 |
| 20 | 26.0 | 31.3 | 106 S | 292 | 20.0 | 43.4 | 133 S | 499 | | 33.8 | 83 | 242 | 20 |
| 21 | 25.0 | 31.8 | 100 S | 275 | | 44.0 | 130 | 494 | | 31.8 | 85 | 173 | 21 |
| 22 | 25.0 | 33.2 | 115 S | 330 | 19.0 | 43.8 | 23 S | 483 | | 29.8 | 48 | 125 | 22 |
| 23 | 25.0 | 34.7 | 100 S | 300 | | 43.8 | 119 | 440 | 8.0 | 28.2 | 38 S | 87.7 | 23 |
| 24 | 24.0 | 35.7 | 88 S | 271 | 19.0 | 43.4 | 118 S | 432 | | 27.4 | 35 | 82.9 | 24 |
| 25 | 23.0 | 35.9 | 90 S | 278 | 20.0 | 41.8 | 113 S | 408 | | 27.0 | 43 | 100 | 25 |
| 26 | | 36.6 | 101 | 319 | | 40.5 | 111 | 388 | | 26.0 | 80 | 135 | 26 |
| 27 | 25.0 | 38.3 | 108 S | 361 | | 38.8 | 111 | 372 | | 25.1 | 68 | 149 | 27 |
| 28 | 26.0 | 41.7 | 107 S | 386 | | 37.2 | 112 | 380 | 13.0 | 27.3 | 97 S | 188 | 28 |
| 29 | | 44.7 | 108 | 417 | | 37.1 | 117 | 375 | | 28.0 | 85 | 197 | 29 |
| 30 | | 46.6 | 127 | 511 | | 37.2 | 122 | 392 | | 28.0 | 83 | 193 | 30 |
| 31 | 23.0 | 47.5 | 135 S | 554 | 25.0 | 36.6 | 127 S | 402 | | | | | 31 |
| TOTAL | | 1 187.8 | | 12 907 | | 1 387.0 | | 14 899 | | 868.8 | | 5 980.8 | TOTAL |
| MEAN | | 37.7 | | 416 | | 43.8 | | 474 | | 28.0 | | 199 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 30.0 | 58 | 153 | | 33.8 | 52 | 152 | | 30.9 B | 58 | 155 | 1 |
| 2 | | 31.3 | 57 | 154 | 5.0 | 35.5 | 57 S | 175 | | 30.5 B | 57 | 150 | 2 |
| 3 | 6.0 | 31.1 | 53 S | 142 | | 36.9 | 59 | 188 | | 29.8 B | 58 | 143 | 3 |
| 4 | | 29.8 | 48 | 124 | | 38.5 | 63 | 215 | | 28.7 B | 55 | 128 | 4 |
| 5 | | 28.8 | 44 | 109 | | 42.4 | 67 | 245 | | 28.2 B | 54 | 132 | 5 |
| 6 | | 27.9 | 40 | 88.4 | | 43.4 | 68 | 255 | | 27.3 B | 53 | 125 | 6 |
| 7 | | 27.4 | 38 | 82.3 | | 43.1 | 62 | 229 | | 26.9 B | 51 | 119 | 7 |
| 8 | | 27.0 | 37 | 86.3 | 4.0 | 40.6 | 55 S | 193 | | 26.0 B | 49 | 110 | 8 |
| 9 | | 27.0 | 35 | 81.6 | | 38.7 | 50 | 172 | | 25.2 B | 48 | 105 | 9 |
| 10 | | 26.8 | 33 | 76.8 | | 38.1 | 47 | 159 | | 24.3 B | 47 | 98.7 | 10 |
| 11 | | 26.8 | 31 | 89.1 | | 38.3 | 43 | 142 | | 23.3 B | 46 | 82.8 | 11 |
| 12 | | 26.5 | 26 | 67.3 | | 37.7 | 38 | 124 | | 22.2 B | 44 | 84.4 | 12 |
| 13 | 8.0 | 24.5 | 25 S | 62.8 | | 37.0 | 34 | 108 | 0.5 | 21.0 B | 42 S | 76.2 | 13 |
| 14 | | 23.6 | 24 | 48.8 | | 36.2 | 33 | 103 | | 19.9 B | 41 | 70.6 | 14 |
| 15 | | 23.4 | 26 | 80.5 | | 35.9 | 34 | 105 | | 18.7 B | 40 | 64.6 | 15 |
| 16 | | 23.6 | 28 | 83.0 | | 36.4 | 35 | 107 | | 17.1 B | 39 | 57.8 | 16 |
| 17 | | 23.6 | 26 | 81.4 | | 36.3 | 35 | 107 | | 16.1 B | 39 | 54.3 | 17 |
| 18 | | 23.7 | 26 | 81.2 | | 36.2 | 34 | 103 | | 14.5 B | 39 | 48.8 | 18 |
| 19 | | 23.3 | 26 | 82.3 | | 34.7 | 35 | 105 | | 13.4 B | 38 | 45.3 | 19 |
| 20 | | 22.8 | 26 | 81.2 | | 34.6 | 35 | 105 | | 14.1 B | 37 | 45.1 | 20 |
| 21 | | 22.3 | 26 | 80.1 | | 35.6 | 35 | 108 | | 14.3 B | 36 | 44.6 | 21 |
| 22 | | 22.0 | 26 | 48.4 | | 35.0 B | 35 | 105 | | 14.7 B | 36 | 44.5 | 22 |
| 23 | | 22.0 | 26 | 48.4 | | 32.7 B | 35 | 98.8 | | 14.4 B | 34 | 42.3 | 23 |
| 24 | | 22.0 | 26 | 48.4 | | 25.6 B | 46 | 102 | | 15.1 B | 32 | 41.7 | 24 |
| 25 | | 21.9 | 27 | 51.1 | | 14.2 B | 73 | 89.6 | | 15.0 B | 31 | 40.2 | 25 |
| 26 | | 21.7 | 26 | 84.4 | | 17.0 B | 78 | 115 | | 14.8 B | 29 | 38.6 | 26 |
| 27 | | 21.4 | 26 | 83.6 | | 19.5 B | 75 | 126 | | 14.6 B | 28 | 35.6 | 27 |
| 28 | | 21.3 | 30 | 85.2 | | 24.3 B | 70 | 147 | | 15.7 B | 26 | 35.3 | 28 |
| 29 | | 22.8 | 32 | 83.3 | | 29.6 B | 67 | 171 | | 18.2 B | 24 | 37.7 | 29 |
| 30 | | 26.7 | 38 | 88.6 | | 31.3 B | 63 | 170 | | 19.8 B | 22 | 37.6 | 30 |
| 31 | | 31.1 | 45 | 121 | | | | | | 19.5 B | 21 | 35.4 | 31 |
| TOTAL | | 781.0 | | 2 335.7 | | 1 018.3 | | 4 323.6 | | 634.4 | | 2 344.8 | TOTAL |
| MEAN | | 26.2 | | 75.3 | | 33.9 | | 144 | | 20.5 | | 75.6 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 285 | |
| MAXIMUM DAILY | 1 350 | ON APR 21 |
| MINIMUM DAILY | 21 | ON DEC 31 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 1 660 | |
| MAXIMUM DAILY | 29 700 | ON APR 11 |
| MINIMUM DAILY | 35.3 | ON DEC 26 |

TOTAL SUSPENDED SEDIMENT LOAD 575 218.3 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 54 N
LONG 98 53 58 W
DRAINAGE AREA 152 000 km²
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT | | WATER TEMP. | CONCENTRATION OF SAMPLE(S) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ($m^3/s$) | | (°C) | (mg/L) | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.063 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 15 | 13:00 | 213 | | 2.0 | 484 | R | 18 | 24 | 35 | 51 | 68 | 78 | 85 | 92 | 95 | 96 | | BMW |
| APR 15 | 13:15 | 213 | | 2.0 | 542 | K | 16 | 20 | 30 | 43 | 56 | 68 | 73 | 81 | 87 | 91 | | BMW |
| APR 25 | 16:00 | 272 | H | 10.0 | 777 | K | 12 | 20 | 32 | 47 | 65 | 75 | 80 | 91 | 98 | 98 | | BMW |
| APR 28 | 11:45 | 283 | | 8.0 | 719 | R | 28 | 33 | 47 | 60 | 70 | 77 | 83 | 88 | 88 | 88 | | BMW |
| APR 29 | 12:00 | 283 | | 8.0 | 786 | K | 25 | 30 | 40 | 53 | 61 | 67 | 74 | 83 | 88 | 90 | | BMW |
| MAY 03 | 16:00 | 237 | H | 8.0 | 440 | K | 21 | 27 | 41 | 57 | 68 | 77 | 81 | 92 | 97 | 98 | | BMW |
| MAY 10 | 08:30 | 194 | H | 12.0 | 389 | K | 22 | 30 | 41 | 57 | 70 | 78 | 80 | 91 | 98 | 98 | | BMW |

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.15 E | | | | 8.10 E | | | | 7.11 E | | | 1 |
| 2 | | 8.14 E | | | | 8.06 E | | | | 7.08 E | | | 2 |
| 3 | | 8.12 E | | | | 8.03 E | | | | 7.05 E | | | 3 |
| 4 | | 8.10 E | | | | 7.99 E | | | | 7.02 E | | | 4 |
| 5 | | 8.08 E | | | | 7.95 E | | | | 6.98 E | | | 5 |
| 6 | | 8.06 E | | | | 7.88 E | | | | 6.95 E | | | 6 |
| 7 | | 8.04 E | | | | 7.80 E | | | | 6.94 E | | | 7 |
| 8 | | 8.00 E | | | | 7.77 E | | | | 6.92 E | | | 8 |
| 9 | | 8.98 E | | | | 7.74 E | | | | 6.90 E | | | 9 |
| 10 | | 8.93 E | | | | 7.71 E | | | | 6.87 E | | | 10 |
| 11 | | 8.88 E | | | | 7.68 E | | | | 6.84 E | | | 11 |
| 12 | | 8.87 E | | | | 7.62 E | | | | 6.82 E | | | 12 |
| 13 | | 8.86 E | | | | 7.59 E | | | | 6.81 E | | | 13 |
| 14 | | 8.85 E | | | | 7.56 E | | | | 6.80 E | | | 14 |
| 15 | | 8.84 E | | | | 7.53 E | | | | 6.78 E | | | 15 |
| 16 | | 8.81 E | | | | 7.50 E | | | | 6.75 E | | | 16 |
| 17 | | 8.78 E | | | | 7.44 E | | | | 6.73 E | | | 17 |
| 18 | | 8.76 E | | | | 7.42 E | | | | 6.72 E | | | 18 |
| 19 | | 8.75 E | | | | 7.40 E | | | | 6.70 E | | | 19 |
| 20 | | 8.73 E | | | | 7.38 E | | | | 6.67 E | | | 20 |
| 21 | | 8.70 E | | | | 7.35 E | | | | 6.84 E | | | 21 |
| 22 | | 8.68 E | | | | 7.32 E | | | | 6.82 E | | | 22 |
| 23 | | 8.60 E | | | | 7.29 E | | | | 6.80 E | | | 23 |
| 24 | | 8.55 E | | | | 7.26 E | | | | 6.56 E | | | 24 |
| 25 | | 8.51 E | | | | 7.23 E | | | | 6.57 E | | | 25 |
| 26 | | 8.43 E | | | | 7.20 E | | | | 6.55 E | | | 26 |
| 27 | | 8.40 E | | | | 7.17 E | | | | 6.53 E | | | 27 |
| 28 | | 8.38 E | | | | 7.14 E | | | | 6.50 E | | | 28 |
| 29 | | 8.33 E | | | | | | | | 6.48 E | | | 29 |
| 30 | | 8.25 E | | | | | | | | 6.47 E | | | 30 |
| 31 | | 8.18 E | | | | | | | | 6.44 E | | | 31 |
| TOTAL | | 271.73 | | | | 212.11 | | | | 205.44 | | | TOTAL |
| MEAN | | 8.77 | | | | 7.58 | | | | 6.76 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.42 E | | | | 88.6 | 17 | 102 | | 108 | 47 S | 438 | 1 |
| 2 | | 8.40 E | | | | 72.8 | 18 | 118 | | 102 | 43 S | 379 | 2 |
| 3 | | 8.38 E | | | | 78.3 | 21 | 144 | | 85.4 | 40 | 330 | 3 |
| 4 | | 8.38 E | | | | 85.8 | 32 | 183 | | 89.3 | 37 S | 285 | 4 |
| 5 | | 8.36 E | | | | 87.5 | 25 | 188 | | 85.4 | 34 S | 251 | 5 |
| 6 | | 8.34 E | | | | 87.1 | 29 | 218 | | 82.4 | 34 | 242 | 6 |
| 7 | | 8.32 E | | | | 88.1 | 32 | 244 | | 77.7 | 34 S | 228 | 7 |
| 8 | | 8.31 E | | | | 92.8 | 31 | 248 | | 74.3 | 31 S | 198 | 8 |
| 9 | | 8.28 E | | | | 88.9 | 30 | 258 | | 72.2 | 30 S | 187 | 9 |
| 10 | | 8.26 E | | | | 106 | 33 | 302 | | 70.0 | 30 | 181 | 10 |
| 11 | | 8.24 E | | | | 106 | 38 | 341 | | 87.8 | 28 S | 184 | 11 |
| 12 | | 8.23 E | | | | 109 | 41 | 388 | | 88.4 | 27 | 185 | 12 |
| 13 | | 8.22 E | | | | 117 | 38 | 384 | | 71.0 | 27 | 166 | 13 |
| 14 | | 8.20 E | | | | 115 | 43 | 427 | | 78.8 | 28 S | 193 | 14 |
| 15 | | 8.18 E | | | | 110 | 42 | 399 | | 78.4 | 33 S | 224 | 15 |
| 16 | | 8.16 E | | | | 108 | 50 S | 458 | | 76.5 | 36 S | 238 | 16 |
| 17 | | 8.14 E | | | | 108 | 78 S | 724 | | 74.5 | 35 S | 225 | 17 |
| 18 | | 8.13 E | | | | 109 | 86 S | 822 | | 72.7 | 36 S | 226 | 18 |
| 19 | | 8.12 E | | | | 113 | 73 S | 713 | | 88.5 | 28 S | 188 | 19 |
| 20 | | 8.38 E | | | | 116 | 82 | 822 | | 85.9 | 28 | 148 | 20 |
| 21 | | 8.28 E | | | | 116 | 87 S | 883 | | 83.1 | 28 S | 153 | 21 |
| 22 | | 8.55 E | | | | 116 | 48 S | 500 | | 80.7 | 28 S | 152 | 22 |
| 23 | | 7.44 E | | | | 116 | 46 | 481 | | 88.1 | 30 S | 151 | 23 |
| 24 | | 8.07 E | | | | 113 | 47 S | 458 | | 88.4 | 30 | 148 | 24 |
| 25 | | 23.0 E | | | | 109 | 43 S | 405 | | 88.1 | 28 S | 133 | 25 |
| 26 | | 88.8 | | | | 107 | 43 S | 398 | | 82.8 | 27 S | 123 | 26 |
| 27 | | 88.1 | | | | 108 | 47 | 439 | | 80.5 | 28 | 113 | 27 |
| 28 | | 73.1 | | | | 113 | 51 S | 484 | | 80.1 | 28 S | 113 | 28 |
| 29 | | 71.7 | | | | 117 | 53 S | 538 | | 48.8 | 28 S | 120 | 29 |
| 30 | | 88.8 | | | | 117 | 52 | 528 | | 48.5 | 28 S | 109 | 30 |
| 31 | | | | | | 113 | 50 S | 480 | | | | | 31 |
| TOTAL | | 518.45 | | | | 3 220.2 | | 12 850 | | 2 120.8 | | 5 841 | TOTAL |
| MEAN | | 17.3 | | | | 104 | | 406 | | 70.7 | | 188 | MEAN |

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 49.2 | 24 | 96.0 | | 45.5 | 25 | 102 | | 22.9 | 15 | 29.7 | 1 |
| 2 | | 44.1 | 22 | 83.8 | | 44.3 | 25 S | 95.7 | | 23.2 | 15 | 30.1 | 2 |
| 3 | | 43.3 | 22 | 82.3 | | 43.9 | 25 S | 106 | | 23.0 | 16 | 31.6 | 3 |
| 4 | | 41.8 | 21 | 76.0 | | 42.8 | 24 S | 88.8 | | 23.8 | 17 | 35.0 | 4 |
| 5 | | 39.7 | 20 | 66.6 | | 41.1 | 25 | 88.8 | | 24.7 | 18 | 38.4 | 5 |
| 6 | | 39.2 | 22 | 74.5 | | 40.0 | 25 S | 89.9 | | 24.9 | 18 | 38.7 | 6 |
| 7 | | 39.1 | 22 | 74.3 | | 38.9 | 25 S | 87.4 | | 24.0 | 18 | 37.3 | 7 |
| 8 | | 38.6 | 20 | 66.7 | | 37.7 | 25 | 81.4 | | 23.2 | 18 | 36.1 | 8 |
| 9 | | 37.5 | 18 | 58.3 | | 37.4 | 25 S | 80.8 | | 23.2 | 20 | 40.1 | 9 |
| 10 | | 37.0 | 18 | 57.6 | | 37.3 | 25 S | 83.8 | | 24.7 | 24 S | 51.2 | 10 |
| 11 | | 36.7 | 18 | 57.1 | | 36.6 | 23 S | 72.7 | | 27.3 | 28 S | 66.0 | 11 |
| 12 | | 36.5 | 17 | 53.6 | | 35.4 | 24 | 73.4 | | 28.7 | 30 | 77.0 | 12 |
| 13 | | 36.9 | 16 | 51.0 | | 34.3 | 23 S | 68.2 | | 30.6 | 28 S | 74.0 | 13 |
| 14 | | 36.3 | 16 | 50.2 | | 33.7 | 20 S | 58.2 | | 30.3 | 28 S | 88.1 | 14 |
| 15 | | 39.8 | 17 | 58.5 | | 33.3 | 22 | 63.3 | | 29.5 | 24 | 61.2 | 15 |
| 16 | | 46.0 | 23 | 85.4 | | 31.1 | 23 S | 61.8 | | 28.1 | 23 | 55.8 | 16 |
| 17 | | 66.4 | 33 | 161 | | 29.7 | 21 S | 53.9 | | 26.7 | 23 | 57.0 | 17 |
| 18 | | 63.2 | 42 | 229 | | 28.8 | 23 S | 57.2 | | 27.8 | 26 | 61.2 | 18 |
| 19 | | 66.4 | 45 | 258 | | 30.3 | 24 | 62.8 | | 61.7 | 29 | 130 | 19 |
| 20 | | 65.8 | 44 | 250 | | 31.0 | 23 S | 61.6 | | 61.1 | 35 | 185 | 20 |
| 21 | | 63.0 | 40 | 218 | | 31.1 | 18 S | 51.1 | | 83.8 | 40 | 221 | 21 |
| 22 | | 60.5 | 37 | 193 | | 30.4 | 18 | 49.8 | | 82.5 | 42 | 227 | 22 |
| 23 | | 58.3 | 36 | 184 | | 28.6 | 20 S | 51.1 | | 80.9 | 42 | 221 | 23 |
| 24 | | 59.1 | 34 | 174 | | 26.1 | 21 | 51.0 | | 58.9 | 41 | 212 | 24 |
| 25 | | 57.8 | 30 | 150 | | 27.2 | 20 | 47.0 | | 56.1 | 40 | 201 | 25 |
| 26 | | 55.9 | 27 | 130 | | 28.6 | 20 | 46.0 | | 55.5 | 39 | 187 | 26 |
| 27 | | 54.2 | 25 | 117 | | 25.9 | 18 | 40.3 | | 52.8 | 37 | 169 | 27 |
| 28 | | 53.2 | 24 | 110 | | 25.2 | 18 | 39.2 | | 51.2 | 35 | 155 | 28 |
| 29 | | 51.7 | 24 S | 107 | | 24.4 | 17 | 35.8 | | 50.8 | 33 | 145 | 29 |
| 30 | | 48.7 | 25 S | 108 | | 23.7 | 15 | 32.8 | | 50.4 | 32 | 139 | 30 |
| 31 | | 47.0 | 26 S | 106 | | 23.1 | 15 | 29.9 | | | | | 31 |
| TOTAL | | 1 503.1 | | 3 598.8 | | 1 026.4 | | 2 011.8 | | 1 158.2 | | 3 100.7 | TOTAL |
| MEAN | | 48.5 | | 116 | | 33.2 | | 64.9 | | 38.6 | | 100 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 46.8 | | | | 33.6 | | | | 21.1 B | | | 1 |
| 2 | | 47.2 | | | | 32.7 | | | | 20.8 B | | | 2 |
| 3 | | 45.3 | | | | 30.8 | | | | 20.5 B | | | 3 |
| 4 | | 43.3 | | | | 31.3 | | | | 20.2 B | | | 4 |
| 5 | | 42.8 | | | | 32.1 | | | | 20.0 B | | | 5 |
| 6 | | 43.2 | | | | 33 B | | | | 19.7 B | | | 6 |
| 7 | | 43.8 | | | | 34 B | | | | 19.4 B | | | 7 |
| 8 | | 43.1 | | | | 34.4 | | | | 19.1 B | | | 8 |
| 9 | | 41.9 | | | | 32.8 | | | | 18.8 B | | | 9 |
| 10 | | 41.4 | | | | 31.8 | | | | 18.6 B | | | 10 |
| 11 | | 41.0 | | | | 30 B | | | | 18.3 B | | | 11 |
| 12 | | 38.8 | | | | 29.3 B | | | | 18.1 B | | | 12 |
| 13 | | 39.1 | | | | 29.0 B | | | | 17.8 B | | | 13 |
| 14 | | 38.8 | | | | 28.3 B | | | | 17.5 B | | | 14 |
| 15 | | 38.0 | | | | 27.9 B | | | | 17.3 B | | | 15 |
| 16 | | 37.7 | | | | 27.3 B | | | | 17.0 B | | | 16 |
| 17 | | 38.2 | | | | 26.7 B | | | | 16.8 B | | | 17 |
| 18 | | 38.6 | | | | 26.2 B | | | | 16.5 B | | | 18 |
| 19 | | 37.7 | | | | 25.7 B | | | | 16.3 B | | | 19 |
| 20 | | 36.7 | | | | 25.3 B | | | | 16.1 B | | | 20 |
| 21 | | 36.4 | | | | 24.7 B | | | | 15.8 B | | | 21 |
| 22 | | 36.0 | | | | 24.3 B | | | | 15.6 B | | | 22 |
| 23 | | 35.7 | | | | 23.8 B | | | | 15.3 B | | | 23 |
| 24 | | 36.1 | | | | 23.4 B | | | | 15.1 B | | | 24 |
| 25 | | 36.0 | | | | 23.0 B | | | | 14.8 B | | | 25 |
| 26 | | 35.7 | | | | 22.6 B | | | | 14.6 B | | | 26 |
| 27 | | 35.4 | | | | 22.3 B | | | | 14.4 B | | | 27 |
| 28 | | 35.2 | | | | 22.0 B | | | | 14.1 B | | | 28 |
| 29 | | 34.8 | | | | 21.7 B | | | | 13.9 B | | | 29 |
| 30 | | 34.4 | | | | 21.4 B | | | | 13.7 B | | | 30 |
| 31 | | 33.8 | | | | | | | | 13.5 B | | | 31 |
| TOTAL | | 1 216.1 | | | | 833.8 | | | | 530.8 | | | TOTAL |
| MEAN | | 39.2 | | | | 27.8 | | | | 17.1 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 27 50 N
LONG 89 05 00 W
DRAINAGE AREA 6 660 km²
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 0 E | 0 | 0 | 1 |
| 2 | | | | | | | | | | 0 E | 0 | 0 | 2 |
| 3 | | | | | | | | | | 0 E | 0 | 0 | 3 |
| 4 | | | | | | | | | | 0 E | 0 | 0 | 4 |
| 5 | | | | | | | | | | 0 E | 0 | 0 | 5 |
| 6 | | | | | | | | | | 0 E | 0 | 0 | 6 |
| 7 | | | | | | | | | | 0 E | 0 | 0 | 7 |
| 8 | | | | | | | | | | 0 E | 0 | 0 | 8 |
| 9 | | | | | | | | | | 0 E | 0 | 0 | 9 |
| 10 | | | | | | | | | | 0 E | 0 | 0 | 10 |
| 11 | | | | | | | | | | 0 E | 0 | 0 | 11 |
| 12 | | | | | | | | | | 0 E | 0 | 0 | 12 |
| 13 | | | | | | | | | | 0 E | 0 | 0 | 13 |
| 14 | | | | | | | | | | 0 E | 0 | 0 | 14 |
| 15 | | | | | | | | | | 0 E | 0 | 0 | 15 |
| 16 | | | | | | | | | | 0 E | 0 | 0 | 16 |
| 17 | | | | | | | | | | 0 E | 0 | 0 | 17 |
| 18 | | | | | | | | | | 0 E | 0 | 0 | 18 |
| 19 | | | | | | | | | | 0 E | 0 | 0 | 19 |
| 20 | | | | | | | | | | 0 E | 0 | 0 | 20 |
| 21 | | | | | | | | | | 0 E | 0 | 0 | 21 |
| 22 | | | | | | | | | | 0 E | 0 | 0 | 22 |
| 23 | | | | | | | | | | 0 E | 0 | 0 | 23 |
| 24 | | | | | | | | | | 0 E | 0 | 0 | 24 |
| 25 | | | | | | | | | | 0 E | 0 | 0 | 25 |
| 26 | | | | | | | | | | 0 E | 0 | 0 | 26 |
| 27 | | | | | | | | | | 0 E | 0 | 0 | 27 |
| 28 | | | | | | | | | | 0 E | 0 | 0 | 28 |
| 29 | | | | | | | | | | 0 E | 0 | 0 | 29 |
| 30 | | | | | | | | | | 0 E | 0 | 0 | 30 |
| 31 | | | | | | | | | | 0 E | 0 | 0 | 31 |
| TOTAL | | | | | | | | | | 0 | | 0 | TOTAL |
| MEAN | | | | | | | | | | 0 | | 0 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 E | 0 | 0 | | 2.52 | 339 | 73.8 | 12.0 | 0.929 | 5 S | 0.40 | 1 |
| 2 | | 0 E | 0 | 0 | 8.0 | 3.13 | 345 S | 93.3 | | 0.977 | 4 | 0.34 | 2 |
| 3 | | 0 E | 0 | 0 | 8.0 | 3.08 | 318 S | 87.5 | | 1.49 | 10 | 1.29 | 3 |
| 4 | | 0 E | 0 | 0 | | 2.02 | 183 | 28.7 | | 5.53 | 190 | 90.8 | 4 |
| 5 | | 0.002 E | 0 | 0 | 10.0 | 1.84 | 133 S | 20.6 | | 4.32 | 151 | 87.6 | 5 |
| 6 | | 0.010 E | 0 | 0 | | 1.70 | 101 | 14.6 | 18.0 | 2.53 | 127 S | 27.8 | 6 |
| 7 | | 0.050 E | 0 | 0 | | 1.33 | 85 | 9.77 | 12.0 | 1.77 | 76 S | 11.9 | 7 |
| 8 | | 0.280 E | 5 | 0.11 | | 1.20 | 70 | 7.28 | | 1.83 | 53 | 8.36 | 8 |
| 9 | | 0.580 E | 10 | 0.45 | 13.0 | 1.25 | 54 S | 5.88 | | 1.86 | 45 | 8.45 | 9 |
| 10 | | 0.450 E | 5 | 0.19 | | 1.26 | 46 | 5.01 | | 1.23 | 40 | 4.26 | 10 |
| 11 | 1.0 | 0.309 E | 3 S | 0.08 | | 1.05 | 44 | 3.99 | | 0.987 | 35 | 2.89 | 11 |
| 12 | | 0.025 E | 0 | 0 | | 1.02 | 44 | 3.86 | | 0.747 | 34 | 2.19 | 12 |
| 13 | | 0 E | 0 | 0 | | 1.19 | 45 | 4.83 | | 0.943 | 33 | 2.89 | 13 |
| 14 | | 0 E | 0 | 0 | | 1.12 | 44 | 4.26 | | 1.03 | 34 | 3.03 | 14 |
| 15 | | 0 E | 0 | 0 | | 0.989 | 45 | 3.85 | | 1.47 | 38 | 4.57 | 15 |
| 16 | | 0 E | 0 | 0 | | 1.83 | 85 | 12.5 | | 1.34 | 29 S | 3.36 | 16 |
| 17 | | 0 E | 0 | 0 | 8.0 | 4.84 | 747 S | 289 | 16.0 | 0.784 | 17 S | 1.15 | 17 |
| 18 | | 0 E | 0 | 0 | 7.0 | 11.4 | 2 530 S | 2 480 | | 0.578 | 14 | 0.70 | 18 |
| 19 | 1.0 | 0.840 E | 27 S | 1.96 | | 11.8 | 1 080 | 1 120 | | 0.481 | 14 | 0.58 | 19 |
| 20 | 1.0 | 4.27 E | 87 S | 35.8 | | 6.86 | 332 | 197 | | 0.493 | 13 | 0.55 | 20 |
| 21 | 1.0 | 28.2 E | 800 S | 1 480 | | 5.34 | 285 | 131 | | 0.462 | 13 | 0.53 | 21 |
| 22 | 1.0 | 42.0 E | 780 S | 2 870 | | 4.00 | 251 | 86.7 | | 0.458 | 12 | 0.47 | 22 |
| 23 | 1.0 | 27.4 E | 682 S | 1 610 | | 3.17 | 214 | 58.6 | | 0.516 | 12 | 0.53 | 23 |
| 24 | 1.0 | 18.7 | 1 190 S | 1 920 | | 2.43 | 178 | 37.4 | | 0.427 | 12 | 0.44 | 24 |
| 25 | 1.0 | 16.0 | 2 150 S | 3 340 | 8.0 | 1.84 | 139 S | 23.3 | | 1.38 | 31 | 3.84 | 25 |
| 26 | 1.0 | 15.6 | 3 280 S | 3 070 | 8.0 | 1.88 | 78 S | 10.8 | | 1.28 | 28 | 3.10 | 26 |
| 27 | 2.5 | 9.15 | 1 590 S | 1 260 | 14.0 | 1.85 | 40 S | 6.36 | | 0.831 | 22 | 1.58 | 27 |
| 28 | | 4.78 | 838 | 347 | | 1.31 | 32 | 3.82 | | 0.570 | 21 | 1.03 | 28 |
| 29 | 5.0 | 3.10 | 405 S | 110 | | 1.15 | 26 | 2.46 | | 0.491 | 20 | 0.85 | 29 |
| 30 | 7.0 | 2.48 | 215 S | 46.3 | | 1.12 | 18 | 1.74 | | 1.05 | 30 | 2.72 | 30 |
| 31 | | | | | 11.0 | 1.08 | 10 S | 0.92 | | | | | 31 |
| TOTAL | | 176.186 | | 18 071.82 | | 86.038 | | 4 815.75 | | 36.535 | | 285.80 | TOTAL |
| MEAN | | 5.87 | | 536 | | 2.78 | | 155 | | 1.26 | | 9.53 | MEAN |

MANITOBA

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.72 | 51 | 12.0 | | 0.144 | 13 | 0.18 | | 0.003 | 3 | 0 | 1 |
| 2 | | 2.87 | 52 | 14.5 | | 0.112 | 9 | 0.09 | | 0.006 | 13 | 0.01 | 2 |
| 3 | | 1.84 | 53 | 7.05 | | 0.094 | 8 | 0.06 | | 0.001 | 13 | 0 | 3 |
| 4 | | 1.83 | 54 | 8.17 | | 0.074 | 4 | 0.03 | | 0.001 | 12 | 0 | 4 |
| 5 | | 1.38 | 54 | 6.54 | | 0.063 | 4 | 0.02 | | 0.020 | 11 | 0.02 | 5 |
| 6 | | 0.933 | 51 | 4.11 | | 0.043 | 3 | 0.01 | | 0.021 | 8 E | 0.02 | 6 |
| 7 | 20.0 | 0.845 | 47 E | 3.82 | | 0.031 | 3 | 0.01 | 15.0 | 0.038 | 7 | 0.02 | 7 |
| 8 | | 0.540 | 45 | 2.10 | | 0.023 | 3 | 0.01 | | 0.077 | 13 | 0.11 | 8 |
| 9 | | 0.422 | 43 | 1.63 | | 0.022 | 3 | 0.01 | 14.0 | 0.071 | 15 E | 0.09 | 9 |
| 10 | | 1.01 | 48 | 4.26 | | 0.030 | 3 | 0.01 | | 0.076 | 14 | 0.09 | 10 |
| 11 | | 1.84 | 44 | 6.93 | | 0.020 | 2 | 0 | | 0.070 | 14 | 0.08 | 11 |
| 12 | | 1.24 | 38 | 3.85 | | 0.022 | 2 | 0 | | 0.065 | 14 | 0.08 | 12 |
| 13 | | 0.818 | 32 | 1.71 | | 0.021 | 2 | 0 | | 0.068 | 14 | 0.08 | 13 |
| 14 | | 0.510 | 29 | 1.28 | | 0.020 | 2 | 0 | | 0.055 | 14 | 0.07 | 14 |
| 15 | | 0.391 | 27 | 0.91 | | 0.020 | 1 | 0 | | 0.042 | 13 | 0.05 | 15 |
| 16 | 24.0 | 0.773 | 26 E | 1.74 | | 0.018 | 1 | 0 | | 0.083 | 13 | 0.08 | 16 |
| 17 | | 0.735 | 26 | 1.65 | | 0.019 | 1 | 0 | | 0.023 | 13 | 0.03 | 17 |
| 18 | | 0.476 | 26 | 1.07 | | 0.018 | 1 | 0 | | 0.031 | 13 | 0.02 | 18 |
| 19 | | 0.481 | 25 | 1.00 | | 0.015 | 1 | 0 | | 0.028 | 13 | 0.03 | 19 |
| 20 | | 0.331 | 25 | 0.71 | | 0.015 | 1 | 0 | | 0.037 | 13 | 0.04 | 20 |
| 21 | | 0.308 | 24 | 0.64 | | 0.017 | 1 | 0 | | 0.044 | 12 | 0.05 | 21 |
| 22 | | 0.284 | 24 | 0.59 | | 0.018 | 1 | 0 | | 0.041 | 12 | 0.04 | 22 |
| 23 | | 0.278 | 24 | 0.58 | | 0.018 | 1 | 0 | | 0.038 | 13 | 0.04 | 23 |
| 24 | | 0.234 | 25 | 0.51 | | 0.014 | 1 | 0 | | 0.031 | 13 | 0.03 | 24 |
| 25 | | 0.225 | 26 | 0.51 | | 0.015 | 1 | 0 | | 0.024 | 13 | 0.03 | 25 |
| 26 | | 0.229 | 28 | 0.57 | | 0.015 | 1 | 0 | | 0.015 | 13 | 0.02 | 26 |
| 27 | | 0.240 | 35 | 0.73 | | 0.015 | 1 | 0 | | 0.015 | 13 | 0.02 | 27 |
| 28 | 24.0 | 0.202 | 38 E | 0.63 | | 0.010 | 1 | 0 | | 0.014 | 12 | 0.01 | 28 |
| 29 | | 0.172 | 31 | 0.48 | | 0.004 | 1 | 0 | | 0.014 | 12 | 0.01 | 29 |
| 30 | | 0.228 | 28 | 0.51 | | 0.001 | 1 | 0 | | 0.018 | 12 | 0.02 | 30 |
| 31 | | 0.180 | 19 | 0.30 | | 0.001 | 1 | 0 | | | | | 31 |
| TOTAL | | 23.428 | | 85.85 | | 0.946 | | 0.60 | | 1.030 | | 1.17 | TOTAL |
| MEAN | | 0.755 | | 2.90 | | 0.030 | | 0.01 | | 0.034 | | 0.04 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.017 | 12 | 0.02 | | | | | | | | | 1 |
| 2 | | 0.060 | 12 | 0.05 | | | | | | | | | 2 |
| 3 | | 0.062 | 12 | 0.05 | | | | | | | | | 3 |
| 4 | | 0.061 | 12 | 0.05 | | | | | | | | | 4 |
| 5 | | 0.072 | 12 | 0.07 | | | | | | | | | 5 |
| 6 | 10.0 | 0.060 | 12 E | 0.06 | | | | | | | | | 6 |
| 7 | | 0.059 | 12 | 0.06 | | | | | | | | | 7 |
| 8 | | 0.051 | 12 | 0.05 | | | | | | | | | 8 |
| 9 | | 0.039 | 12 | 0.04 | | | | | | | | | 9 |
| 10 | | 0.039 | 12 | 0.04 | | | | | | | | | 10 |
| 11 | | 0.110 | 12 | 0.12 | | | | | | | | | 11 |
| 12 | | 0.150 | 12 | 0.15 | | | | | | | | | 12 |
| 13 | | 0.103 | 11 | 0.10 | | | | | | | | | 13 |
| 14 | | 0.083 | 11 | 0.08 | | | | | | | | | 14 |
| 15 | | 0.061 | 11 | 0.06 | | | | | | | | | 15 |
| 16 | | 0.057 | 11 | 0.05 | | | | | | | | | 16 |
| 17 | | 0.051 | 11 | 0.05 | | | | | | | | | 17 |
| 18 | | 0.045 | 11 | 0.04 | | | | | | | | | 18 |
| 19 | 8.0 | 0.038 | 11 E | 0.04 | | | | | | | | | 19 |
| 20 | | 0.037 | 11 | 0.04 | | | | | | | | | 20 |
| 21 | | 0.038 | 11 | 0.04 | | | | | | | | | 21 |
| 22 | | 0.044 | 11 | 0.04 | | | | | | | | | 22 |
| 23 | | 0.035 | 11 | 0.03 | | | | | | | | | 23 |
| 24 | | 0.027 | 11 | 0.03 | | | | | | | | | 24 |
| 25 | | 0.026 | 10 | 0.02 | | | | | | | | | 25 |
| 26 | | 0.025 | 9 | 0.02 | | | | | | | | | 26 |
| 27 | | 0.024 | 8 | 0.02 | | | | | | | | | 27 |
| 28 | | 0.024 | 7 | 0.01 | | | | | | | | | 28 |
| 29 | | 0.024 | 6 | 0.01 | | | | | | | | | 29 |
| 30 | | 0.025 | 5 | 0.01 | | | | | | | | | 30 |
| 31 | | 0.024 | 4 | 0.01 | | | | | | | | | 31 |
| TOTAL | | 1 569 | | 1.48 | | | | | | | | | TOTAL |
| MEAN | | 0.060 | | 0.05 | | | | | | | | | MEAN |

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 780 | |
| MAXIMUM DAILY | 3 630 | 08 MAY 18 |
| MINIMUM DAILY | 0 | 09 MAR 01 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 88.7 | |
| MAXIMUM DAILY | 3 340 | 08 APR 25 |
| MINIMUM DAILY | 0 | 09 MAR 01 |

TOTAL SUSPENDED SEDIMENT LOAD 31 338.48 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 05 30 N
LONG 99 55 30 W
DRAINAGE AREA 311 km²
REGULATED FLOW

E - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER, P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 22 | 15:30 | 38.1 | 1.0 | 1 370 K | 8 | 11 | 20 | 32 | 47 | 84 | 80 | 90 | 95 | 95 | | SNW |
| APR 24 | 09:38 | 17.3 | 1.0 | 788 K | 45 | 69 | 74 | 83 | 86 | 91 | 95 | 99 | 100 | | | SNW |
| APR 24 | 10:00 | 17.3 | 1.0 | 845 R | 50 | 59 | 74 | 80 | 81 | 93 | 95 | 98 | 100 | | | SNW |
| APR 25 | 08:45 | 18.0 H | 1.0 | 2 080 K | 41 | 64 | 73 | 80 | 84 | 96 | 97 | 99 | 99 | 100 | | SNW |
| APR 27 | 21:20 | 8.19H | 3.0 | 1 210 K | 43 | 52 | 69 | 88 | 95 | 97 | 99 | 100 | | | | SNW |
| MAY 18 | 08:45 | 11.4 H | 7.0 | 2 430 K | 23 | 48 | 66 | 80 | 92 | 98 | 99 | 100 | | | | SNW |

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 21.4 B | | | | 15.3 B | | | | 11.0 B | | | 1 |
| 2 | | 21.2 B | | | | 15.2 B | | | | 10.8 B | | | 2 |
| 3 | | 21.1 B | | | | 15.0 B | | | | 10.7 B | | | 3 |
| 4 | | 20.8 B | | | | 15.3 B | | | | 10.5 B | | | 4 |
| 5 | | 20.8 B | | | | 15.6 B | | | | 10.3 B | | | 5 |
| 6 | | 20.6 B | | | | 15.5 B | | | | 10.1 B | | | 6 |
| 7 | | 20.4 B | | | | 15.3 B | | | | 9.95 B | | | 7 |
| 8 | | 20.3 B | | | | 15.1 B | | | | 9.78 B | | | 8 |
| 9 | | 20.2 B | | | | 15.0 B | | | | 9.60 B | | | 9 |
| 10 | | 20.0 B | | | | 14.8 B | | | | 9.39 B | | | 10 |
| 11 | | 19.8 B | | | | 14.6 B | | | | 9.18 B | | | 11 |
| 12 | | 19.7 B | | | | 14.5 B | | | | 8.97 B | | | 12 |
| 13 | | 19.6 B | | | | 14.2 B | | | | 8.78 B | | | 13 |
| 14 | | 19.4 B | | | | 14.0 B | | | | 8.60 B | | | 14 |
| 15 | | 19.3 B | | | | 13.8 B | | | | 8.42 B | | | 15 |
| 16 | | 19.1 B | | | | 13.6 B | | | | 8.24 B | | | 16 |
| 17 | | 18.9 B | | | | 13.5 B | | | | 8.08 B | | | 17 |
| 18 | | 18.8 B | | | | 13.3 B | | | | 7.94 B | | | 18 |
| 19 | | 18.6 B | | | | 13.1 B | | | | 7.78 B | | | 19 |
| 20 | | 18.5 B | | | | 12.9 B | | | | 7.64 B | | | 20 |
| 21 | | 18.3 B | | | | 12.8 B | | | | 7.49 B | | | 21 |
| 22 | | 18.1 B | | | | 12.6 B | | | | 7.34 B | | | 22 |
| 23 | | 18.0 B | | | | 12.3 B | | | | 7.18 B | | | 23 |
| 24 | | 17.8 B | | | | 12.1 B | | | | 6.98 B | | | 24 |
| 25 | | 17.6 B | | | | 11.9 B | | | | 6.80 B | | | 25 |
| 26 | | 17.4 B | | | | 11.7 B | | | | 6.62 B | | | 26 |
| 27 | | 17.3 B | | | | 11.6 B | | | | 6.44 B | | | 27 |
| 28 | | 17.1 B | | | | 11.4 B | | | | 6.26 B | | | 28 |
| 29 | | 16.8 B | | | | | | | | 6.08 B | | | 29 |
| 30 | | 16.7 B | | | | | | | | 5.90 B | | | 30 |
| 31 | | 16.5 B | | | | | | | | 5.80 B | | | 31 |
| TOTAL | | 590.4 | | | | 388.1 | | | | 258.84 | | | TOTAL |
| MEAN | | 19.0 | | | | 13.9 | | | | 8.34 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5.88 B | | | | 27.0 B | 16 | 37.3 | | 198 | 84 | 1 630 | 1 |
| 2 | | 5.59 B | | | | 28.3 B | 16 | 40.5 | | 193 | 88 S | 1 430 | 2 |
| 3 | | 5.48 B | | | | 31.6 B | 17 | 48.4 | | 184 | 79 | 1 200 | 3 |
| 4 | | 5.38 B | | | | 34.9 B | 18 | 54.3 | | 173 | 74 | 1 110 | 4 |
| 5 | | 5.27 B | | | | 38.1 B | 19 | 62.8 | | 159 | 70 | 882 | 5 |
| 6 | | 5.17 B | | | | 42.2 B | 18 | 69.3 | | 144 | 87 | 834 | 6 |
| 7 | | 5.06 B | | | | 46.1 B | 20 | 78.7 | | 128 | 84 | 713 | 7 |
| 8 | | 4.95 B | | | | 50.8 | 21 | 92.2 | | 117 | 81 | 817 | 8 |
| 9 | | 4.85 B | | | | 63.0 | 23 | 133 | | 108 | 89 | 840 | 9 |
| 10 | | 4.77 B | | | | 76.7 | 28 | 186 | | 97.8 | 97 | 482 | 10 |
| 11 | | 4.70 B | | | | 88.8 | 35 | 268 | | 91.4 | 88 | 434 | 11 |
| 12 | | 4.68 B | | | | 102 | 43 | 378 | | 88.1 | 83 | 390 | 12 |
| 13 | | 4.62 B | | | | 108 | 51 | 480 | | 92.4 | 83 | 377 | 13 |
| 14 | | 4.55 B | | | | 116 | 58 | 576 | | 83.3 | 86 | 417 | 14 |
| 15 | | 4.84 B | | | | 119 | 63 | 637 | | 85.9 | 89 | 512 | 15 |
| 16 | | 4.54 B | | | | 124 | 63 | 684 | | 85.6 | 74 | 549 | 16 |
| 17 | | 4.55 B | | | | 136 | 61 | 737 | | 85.1 | 67 | 493 | 17 |
| 18 | | 4.55 B | | | | 147 | 65 | 826 | | 82.1 | 62 | 440 | 18 |
| 19 | | 4.60 B | | | | 148 | 74 | 948 | | 78.5 | 61 | 414 | 19 |
| 20 | | 4.62 B | | | | 195 | 84 | 1 120 | | 73.5 | 60 | 381 | 20 |
| 21 | | 4.64 B | | | | 180 | 84 | 1 300 | | 69.9 | 60 | 302 | 21 |
| 22 | | 4.85 B | | | | 164 | 101 | 1 430 | | 85.4 | 60 | 344 | 22 |
| 23 | | 5.44 B | | | | 170 A | 105 | 1 540 | | 83.4 | 62 S | 343 | 23 |
| 24 | | 5.28 B | | | | 172 E | 103 E | 1 530 | | 83.2 | 63 | 338 | 24 |
| 25 | | 5.63 B | | | | 173 A | 84 S | 1 410 | | 80.7 | 65 S | 341 | 25 |
| 26 | | 13.8 B | | | | 173 | 85 S | 1 380 | | 58.5 | 65 | 334 | 26 |
| 27 | | 16.5 B | | | | 176 | 85 S | 1 350 | | 55.2 | 65 S | 315 | 27 |
| 28 | | 20.1 B | | | | 183 | 83 | 1 450 | | 53.7 | 63 S | 287 | 28 |
| 29 | | 23.8 B | | | | 181 | 85 S | 1 530 | | 50.8 | 59 | 259 | 29 |
| 30 | | 25.4 B | | | | 187 | 102 | 1 740 | | 49.8 | 57 S | 244 | 30 |
| 31 | | | | | | 201 | 100 S | 1 740 | | | | | 31 |
| TOTAL | | 226.07 | | | | 3 643.3 | | 23 784.3 | | 3 024.9 | | 17 142 | TOTAL |
| MEAN | | 7.80 | | | | 118 | | 788 | | 97.5 | | 571 | MEAN |

ODEI RIVER NEAR THOMPSON - STATION NO. 05TE003

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 48.1 | 59 | 245 | | 52.6 | 51 S | 232 | | 42.8 | 35 S | 129 | 1 |
| 2 | | 46.8 | 63 S | 254 | | 50.6 | 53 S | 232 | | 40.9 | 34 S | 120 | 2 |
| 3 | | 45.2 | 65 | 254 | | 48.1 | 55 | 233 | | 40.1 | 34 | 118 | 3 |
| 4 | | 43.3 | 64 | 239 | | 47.4 | 54 S | 221 | | 39.1 | 34 | 115 | 4 |
| 5 | | 41.1 | 62 S | 220 | | 46.7 | 56 | 217 | | 38.8 | 33 | 111 | 5 |
| 6 | | 38.6 | 60 | 205 | | 44.7 | 60 S | 232 | | 39.3 | 34 | 115 | 6 |
| 7 | | 38.7 | 54 | 184 | | 44.3 | 60 | 230 | | 39.1 | 36 | 122 | 7 |
| 8 | | 38.1 | 56 | 184 | | 43.5 | 61 S | 182 | | 38.9 | 35 | 118 | 8 |
| 9 | | 37.1 | 55 | 176 | | 43.7 | 62 S | 186 | | 38.7 | 33 | 110 | 9 |
| 10 | | 38.6 | 54 | 171 | | 44.1 | 53 | 202 | | 39.4 | 34 | 116 | 10 |
| 11 | | 36.1 | 53 S | 165 | | 43.9 | 52 S | 197 | | 40.4 | 3. | 125 | 11 |
| 12 | | 36.2 | 52 | 163 | | 43.2 | 52 | 194 | | 40.9 | 38 | 134 | 12 |
| 13 | | 36.0 | 50 | 156 | | 41.8 | 53 S | 192 | | 41.9 | 38 | 138 | 13 |
| 14 | | 35.0 | 48 | 146 | | 40.0 | 53 | 183 | | 42.1 | 36 | 131 | 14 |
| 15 | | 37.5 | 49 | 159 | | 39.0 | 53 S | 179 | | 42.2 | 34 | 124 | 15 |
| 16 | | 44.3 | 51 S | 195 | | 37.5 | 51 | 165 | | 41.5 | 33 | 118 | 16 |
| 17 | | 56.4 | 65 | 317 | | 36.2 | 49 | 153 | | 42.1 | 32 | 116 | 17 |
| 18 | | 70.6 | 86 S | 524 | | 36.3 | 48 | 140 | | 50.3 | 35 | 152 | 18 |
| 19 | | 80.1 | 106 S | 734 | | 37.5 | 46 | 149 | | 88.5 | 51 | 302 | 19 |
| 20 | | 83.7 | 100 | 723 | | 40.9 | 53 S | 187 | | 91.5 | | | 20 |
| 21 | | 83.5 | 80 S | 570 | | 46.8 | 56 | 225 | | 110 | | | 21 |
| 22 | | 79.5 | 68 | 467 | | 51.8 | 47 S | 210 | | 123 | | | 22 |
| 23 | | 76.3 | 62 S | 418 | | 55.0 | 43 S | 204 | | 130 | | | 23 |
| 24 | | 77.1 | 61 | 406 | | 55.7 | 42 | 202 | | 132 | | | 24 |
| 25 | | 74.4 | 60 S | 386 | | 55.6 | 42 S | 202 | | 127 | | | 25 |
| 26 | | 71.4 | 54 S | 333 | | 54.3 | 42 S | 197 | | 120 | | | 26 |
| 27 | | 68.8 | 51 | 303 | | 52.8 | 41 | 187 | | 114 | | | 27 |
| 28 | | 64.6 | 51 S | 288 | | 50.3 | 39 S | 189 | | 107 | | | 28 |
| 29 | | 61.4 | 53 | 281 | | 48.9 | 38 | 181 | | 101 | | | 29 |
| 30 | | 58.5 | 54 S | 273 | | 47.2 | 36 S | 147 | | 98.1 | | | 30 |
| 31 | | 55.5 | 53 | 254 | | 44.9 | 35 | 136 | | | | | 31 |
| TOTAL | | 1 702.4 | | 9 404 | | 1 424.0 | | 5 986 | | 2 058.5 | | | TOTAL |
| MEAN | | 54.9 | | 303 | | 45.9 | | 193 | | 68.5 | | | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 83.0 | | | | 45.4 | | | | 23.9 S | | | 1 |
| 2 | | 87.7 | | | | 45.6 | | | | 23.4 S | | | 2 |
| 3 | | 82.3 | | | | 43.7 | | | | 22.9 S | | | 3 |
| 4 | | 78.4 | | | | 43.4 | | | | 22.5 S | | | 4 |
| 5 | | 75.6 | | | | 43.1 | | | | 22.0 S | | | 5 |
| 6 | | 72.7 | | | | 43.6 | | | | 21.5 S | | | 6 |
| 7 | | 71.0 | | | | 44.3 | | | | 20.8 S | | | 7 |
| 8 | | 69.3 | | | | 44.5 | | | | 20.6 S | | | 8 |
| 9 | | 66.8 | | | | 42.8 | | | | 20.3 S | | | 9 |
| 10 | | 65.3 | | | | 39.4 S | | | | 19.9 S | | | 10 |
| 11 | | 63.3 | | | | 38.4 S | | | | 19.5 S | | | 11 |
| 12 | | 61.4 | | | | 37.5 S | | | | 19.2 S | | | 12 |
| 13 | | 59.7 | | | | 36.7 S | | | | 18.9 S | | | 13 |
| 14 | | 58.1 | | | | 35.9 S | | | | 18.6 S | | | 14 |
| 15 | | 56.6 | | | | 35.2 S | | | | 18.3 S | | | 15 |
| 16 | | 55.5 | | | | 34.5 S | | | | 17.9 S | | | 16 |
| 17 | | 53.6 | | | | 33.8 S | | | | 17.5 S | | | 17 |
| 18 | | 53.1 | | | | 33.1 S | | | | 17.2 S | | | 18 |
| 19 | | 52.7 | | | | 32.4 S | | | | 16.8 S | | | 19 |
| 20 | | 51.2 | | | | 31.7 S | | | | 16.4 S | | | 20 |
| 21 | | 50.3 | | | | 30.9 S | | | | 16.3 S | | | 21 |
| 22 | | 49.6 | | | | 30.1 S | | | | 16.0 S | | | 22 |
| 23 | | 49.1 | | | | 29.4 S | | | | 15.7 S | | | 23 |
| 24 | | 48.7 | | | | 28.7 S | | | | 15.5 S | | | 24 |
| 25 | | 48.4 | | | | 27.9 S | | | | 15.2 S | | | 25 |
| 26 | | 48.5 | | | | 27.1 S | | | | 14.9 S | | | 26 |
| 27 | | 48.5 | | | | 26.3 S | | | | 14.6 S | | | 27 |
| 28 | | 48.3 | | | | 25.7 S | | | | 14.3 S | | | 28 |
| 29 | | 47.8 | | | | 25.0 S | | | | 14.1 S | | | 29 |
| 30 | | 47.5 | | | | 24.4 S | | | | 13.8 S | | | 30 |
| 31 | | 47.1 | | | | | | | | 13.6 S | | | 31 |
| TOTAL | | 1 860.7 | | | | 1 061.1 | | | | 582.5 | | | TOTAL |
| MEAN | | 60.0 | | | | 35.4 | | | | 18.1 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 59 45 N
LONG 97 21 23 W
DRAINAGE AREA 9 450 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.115 B | 132 | 1.31 | | 0.018 B | 190 | 0.26 | | 0.035 B | 154 | 0.47 | 1 |
| 2 | | 0.120 B | 136 | 1.63 | | 0.014 B | 191 | 0.23 | | 0.040 B | 149 | 0.51 | 2 |
| 3 | | 0.132 B | 143 | 1.63 | | 0.013 B | 192 | 0.22 | | 0.055 B | 144 | 0.68 | 3 |
| 4 | | 0.138 B | 148 | 1.76 | | 0.012 B | 193 | 0.20 | | 0.070 B | 138 | 0.83 | 4 |
| 5 | | 0.140 B | 152 | 1.84 | | 0.011 B | 194 | 0.18 | | 0.500 B | 115 | 4.97 | 5 |
| 6 | 0.5 | 0.110 B | 157 S | 1.40 | | 0.010 B | 195 | 0.17 | | 2.00 B | 90 | 15.6 | 6 |
| 7 | | 0.085 B | 156 | 1.15 | | 0.009 B | 194 | 0.15 | | 1.70 B | 88 | 9.89 | 7 |
| 8 | | 0.070 B | 155 | 0.94 | 0.5 | 0.008 B | 193 S | 0.14 | | 1.84 B | 81 | 7.23 | 8 |
| 9 | | 0.080 B | 155 | 1.07 | | 0.008 B | 194 | 0.14 | | 1.65 B | 66 | 5.93 | 9 |
| 10 | | 0.090 B | 156 | 1.21 | | 0.008 B | 195 | 0.13 | | 1.50 B | 61 | 8.31 | 10 |
| 11 | | 0.070 B | 155 | 0.95 | | 0.008 B | 195 | 0.13 | | 1.44 B | 38 | 4.73 | 11 |
| 12 | | 0.080 B | 155 | 0.82 | | 0.020 B | 194 | 0.34 | | 1.40 B | 37 | 4.48 | 12 |
| 13 | | 0.080 B | 180 | 1.11 | | 0.035 B | 191 | 0.58 | | 4.00 B | 37 | 12.8 | 13 |
| 14 | | 0.110 B | 181 | 1.53 | | 0.050 B | 188 | 0.81 | | 3.50 B | 35 | 10.8 | 14 |
| 15 | | 0.120 B | 183 | 1.88 | | 0.040 B | 185 | 0.64 | 0.5 | 3.50 B | 35 S | 10.8 | 15 |
| 16 | | 0.125 B | 183 | 1.78 | | 0.035 B | 184 | 0.58 | | 3.41 B | 33 | 9.72 | 16 |
| 17 | | 0.130 B | 184 | 1.84 | | 0.030 B | 183 | 0.47 | | 1.78 B | 34 | 5.23 | 17 |
| 18 | | 0.137 B | 185 | 1.95 | | 0.030 B | 181 | 0.47 | | 1.19 B | 35 | 3.60 | 18 |
| 19 | | 0.145 B | 185 | 2.10 | | 0.035 B | 180 | 0.54 | | 0.944 B | 35 | 2.85 | 19 |
| 20 | | 0.152 B | 189 | 2.22 | | 0.035 B | 178 | 0.54 | | 0.904 B | 34 | 2.66 | 20 |
| 21 | | 0.175 B | 171 | 2.59 | | 0.040 B | 177 | 0.61 | | 0.755 B | 34 | 2.22 | 21 |
| 22 | | 0.200 B | 172 | 2.97 | | 0.040 B | 175 | 0.60 | | 0.656 B | 34 | 1.93 | 22 |
| 23 | | 0.180 B | 174 | 2.41 | | 0.035 B | 172 | 0.52 | | 0.496 B | 35 | 1.51 | 23 |
| 24 | | 0.110 B | 175 | 1.66 | | 0.030 B | 169 | 0.44 | | 0.490 B | 35 | 1.52 | 24 |
| 25 | | 0.080 B | 177 | 1.22 | | 0.035 B | 166 | 0.50 | | 0.901 B | 37 | 1.80 | 25 |
| 26 | | 0.080 B | 178 | 0.92 | | 0.050 B | 163 | 0.70 | | 0.441 B | 38 | 1.45 | 26 |
| 27 | | 0.040 B | 180 | 0.62 | | 0.045 B | 161 | 0.63 | | 0.482 B | 37 | 1.44 | 27 |
| 28 | | 0.030 B | 183 | 0.47 | | 0.040 B | 158 | 0.55 | | 0.480 B | 38 | 1.58 | 28 |
| 29 | | 0.025 B | 185 | 0.40 | | | | | | 0.488 B | 40 | 1.69 | 29 |
| 30 | | 0.020 B | 187 | 0.32 | | | | | | 0.850 B | 42 | 3.08 | 30 |
| 31 | | 0.018 B | 189 | 0.29 | | | | | | 2.72 B | 42 | 9.87 | 31 |
| TOTAL | | 3.137 | | 43.79 | | 0.742 | | 11.45 | | 39.800 | | 146.38 | TOTAL |
| MEAN | | 0.101 | | 1.41 | | 0.026 | | 0.41 | | 1.27 | | 4.72 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4.87 B | 48 | 19.8 | 10.5 | 18.4 | 370 S | 588 | | 7.40 | 82 | 52.4 | 1 |
| 2 | | 8.00 B | 52 | 35.9 | | 16.0 | 382 | 547 | | 7.22 | 78 | 48.3 | 2 |
| 3 | | 12.1 B | 80 | 83.6 | 10.0 | 17.8 | 336 S | 511 | | 6.90 | 75 | 44.7 | 3 |
| 4 | 0.5 | 16.2 B | 157 S | 220 | | 17.0 | 321 | 471 | | 6.78 | 70 | 40.8 | 4 |
| 5 | | 19.8 B | 383 | 624 | | 16.5 | 306 | 436 | 11.0 | 6.72 | 65 S | 37.7 | 5 |
| 6 | 0.5 | 23.6 B | 653 S | 1 740 | | 15.0 | 281 | 402 | | 6.58 | 60 | 34.0 | 6 |
| 7 | 0.3 | 26.0 B | 1 100 S | 2 470 | | 15.4 | 272 | 362 | | 6.36 | 57 | 31.3 | 7 |
| 8 | 0.5 | 28.7 | 1 610 S | 3 990 | 13.0 | 14.9 | 255 S | 328 | | 6.12 | 55 | 29.1 | 8 |
| 9 | 2.3 | 26.3 | 1 240 S | 2 820 | 11.0 | 14.5 | 271 S | 340 | | 5.88 | 53 | 26.9 | 9 |
| 10 | 2.3 | 26.2 | 1 240 S | 2 810 | | 13.5 | 251 | 293 | | 5.76 | 54 | 26.9 | 10 |
| 11 | 2.0 | 25.7 | 1 170 S | 2 800 | | 12.8 | 229 | 249 | | 5.44 | 54 | 25.4 | 11 |
| 12 | 1.0 | 23.1 | 1 070 S | 2 140 | 7.0 | 12.7 | 216 S | 237 | 22.0 | 5.15 | 54 S | 24.0 | 12 |
| 13 | | 20.2 | 800 | 1 400 | | 13.0 | 210 | 236 | | 5.14 | 53 | 23.5 | 13 |
| 14 | | 18.0 | 648 | 1 010 | | 12.7 | 205 | 225 | | 4.95 | 52 | 22.2 | 14 |
| 15 | | 16.3 | 736 | 1 160 | | 12.1 | 199 | 208 | | 4.88 | 51 | 21.4 | 15 |
| 16 | 2.0 | 17.8 | 706 S | 1 080 | | 11.8 | 186 | 190 | 15.0 | 4.76 | 50 S | 20.6 | 16 |
| 17 | 2.0 | 19.0 | 873 S | 1 430 | | 11.4 | 171 | 188 | | 4.45 | 50 | 19.2 | 17 |
| 18 | 2.0 | 18.8 | 856 S | 1 070 | | 11.1 | 156 | 152 | | 4.25 | 52 | 19.1 | 18 |
| 19 | 6.0 | 15.7 | 570 S | 921 | | 10.2 | 149 | 131 | 17.0 | 4.05 | 53 S | 18.6 | 19 |
| 20 | 8.0 | 19.2 | 588 S | 842 | | 10.3 | 143 | 127 | | 3.96 | 55 | 18.8 | 20 |
| 21 | 8.5 | 18.1 | 640 S | 1 080 | | 10.1 | 140 | 122 | | 3.79 | 56 | 18.3 | 21 |
| 22 | 8.0 | 18.3 | 781 S | 1 270 | 12.0 | 9.81 | 137 S | 114 | 22.5 | 4.17 | 56 S | 23.8 | 22 |
| 23 | 10.5 | 18.0 | 814 S | 1 010 | | 9.36 | 133 | 107 | | 3.99 | 57 | 19.6 | 23 |
| 24 | 12.0 | 18.4 | 847 S | 917 | | 9.23 | 128 | 102 | | 3.86 | 51 | 17.1 | 24 |
| 25 | 12.0 | 18.7 | 726 S | 1 240 | | 8.98 | 123 | 95.4 | | 3.75 | 46 | 14.8 | 25 |
| 26 | 11.0 | 18.7 | 650 S | 838 | | 8.82 | 116 | 88.4 | 25.0 | 3.61 | 39 S | 12.2 | 26 |
| 27 | 8.0 | 18.4 | 485 S | 778 | | 8.60 | 107 | 78.6 | | 3.36 | 37 | 10.7 | 27 |
| 28 | 6.0 | 18.2 | 800 S | 985 | | 8.01 | 88 | 67.6 | | 3.26 | 37 | 10.4 | 28 |
| 29 | 7.0 | 18.0 | 480 S | 788 | 15.0 | 7.78 | 81 S | 61.2 | | 3.18 | 36 | 9.89 | 29 |
| 30 | 10.0 | 18.5 | 378 S | 807 | | 7.78 | 88 | 59.0 | | 3.11 | 36 | 9.87 | 30 |
| 31 | | | | | | 7.80 | 85 | 55.5 | | | | | 31 |
| TOTAL | | 583.27 | | 38 176.3 | | 375.45 | | 7 152.2 | | 148.82 | | 732.26 | TOTAL |
| MEAN | | 18.4 | | 1 270 | | 12.1 | | 231 | | 4.98 | | 24.4 | MEAN |

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OD007

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.82 | 36 | 8.06 | | 0.873 | 7 | 0.59 | | 0.138 | 5 | 0.07 | 1 |
| 2 | | 2.89 | 36 | 8.99 | | 0.893 | 7 | 0.60 | | 0.132 | 5 | 0.06 | 2 |
| 3 | 19.0 | 2.83 | 36 S | 8.56 | | 0.889 | 7 | 0.54 | | 0.121 | 5 | 0.05 | 3 |
| 4 | | 2.89 | 34 | 7.90 | | 0.745 | 6 | 0.38 | | 0.118 | 5 | 0.05 | 4 |
| 5 | | 2.88 | 32 | 7.08 | | 0.682 | 6 | 0.35 | | 0.126 | 5 S | 0.06 | 5 |
| 6 | | 2.48 | 29 | 6.21 | | 0.885 | 5 | 0.28 | | 0.137 | 5 | 0.06 | 6 |
| 7 | | 2.37 | 27 | 5.53 | 26.0 | 0.884 | 4 S | 0.23 | | 0.135 | 5 | 0.06 | 7 |
| 8 | | 2.25 | 25 | 4.86 | | 0.872 | 5 | 0.28 | | 0.134 | 5 | 0.07 | 8 |
| 9 | | 2.13 | 23 | 4.03 | | 0.826 | 5 | 0.27 | | 0.136 | 5 | 0.07 | 9 |
| 10 | 25.0 | 2.03 | 19 S | 3.33 | | 0.678 | 7 | 0.28 | | 0.118 | 6 | 0.06 | 10 |
| 11 | | 1.88 | 18 | 2.80 | 22.0 | 0.425 | 6 S | 0.25 | | 0.102 | 5 S | 0.04 | 11 |
| 12 | | 1.77 | 11 | 1.88 | | 0.400 | 7 | 0.24 | | 0.105 | 5 | 0.05 | 12 |
| 13 | 24.0 | 1.69 | 8 S | 1.17 | | 0.380 | 6 | 0.20 | | 0.103 | 5 | 0.05 | 13 |
| 14 | | 1.69 | 8 | 1.17 | 27.0 | 0.328 | 5 S | 0.14 | | 0.093 | 5 | 0.04 | 14 |
| 15 | | 1.74 | 7 | 1.05 | | 0.288 | 5 | 0.13 | | 0.145 | 7 | 0.09 | 15 |
| 16 | | 1.73 | 9 | 1.35 | | 0.287 | 5 | 0.12 | | 0.204 | 12 | 0.21 | 16 |
| 17 | 28.0 | 1.69 | 11 S | 1.61 | | 0.250 | 4 | 0.09 | | 0.148 | 8 | 0.10 | 17 |
| 18 | | 1.60 | 11 | 1.52 | | 0.241 | 5 | 0.10 | | 0.139 | 8 S | 0.10 | 18 |
| 19 | | 1.61 | 11 | 1.53 | | 0.218 | 5 | 0.09 | | 0.142 | 8 | 0.10 | 19 |
| 20 | | 1.44 | 11 | 1.37 | | 0.181 | 5 | 0.08 | | 0.144 | 8 | 0.10 | 20 |
| 21 | | 1.41 | 11 | 1.34 | 24.0 | 0.178 | 5 S | 0.08 | | 0.162 | 8 | 0.10 | 21 |
| 22 | | 1.43 | 10 | 1.24 | | 0.180 | 5 | 0.07 | | 0.126 | 7 | 0.08 | 22 |
| 23 | | 1.28 | 8 | 0.98 | | 0.189 | 5 | 0.08 | | 0.121 | 7 | 0.07 | 23 |
| 24 | 24.0 | 1.18 | 8 S | 0.79 | | 0.281 | 6 | 0.15 | | 0.101 | 7 | 0.06 | 24 |
| 25 | | 1.08 | 8 | 0.75 | | 0.228 | 6 | 0.12 | 15.0 | 0.087 | 7 S | 0.05 | 25 |
| 26 | | 1.02 | 8 | 0.71 | | 0.241 | 5 | 0.10 | | 0.078 | 8 | 0.05 | 26 |
| 27 | | 0.986 | 8 | 0.68 | | 0.200 | 6 | 0.10 | 15.0 | 0.124 | 13 S | 0.14 | 27 |
| 28 | | 0.949 | 7 | 0.57 | | 0.144 | 6 | 0.07 | | 0.380 | 18 | 0.84 | 28 |
| 29 | | 0.884 | 7 | 0.53 | 26.0 | 0.197 | 5 S | 0.09 | | 0.185 | 15 | 0.24 | 29 |
| 30 | | 0.962 | 7 | 0.58 | | 0.178 | 6 | 0.09 | | 0.173 | 14 | 0.21 | 30 |
| 31 | 24.5 | 0.915 | 7 S | 0.55 | | 0.154 | 6 | 0.08 | | | | | 31 |
| TOTAL | | 54.028 | | 89.34 | | 12.308 | | 8.30 | | 4.135 | | 3.12 | TOTAL |
| MEAN | | 1.74 | | 2.88 | | 0.397 | | 0.20 | | 0.138 | | 0.10 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.281 | 18 | 0.40 | | 0.210 | 5 | 0.08 | | 0.108 B | 7 | 0.07 | 1 |
| 2 | 13.0 | 0.448 | 19 S | 0.74 | | 0.203 | 5 | 0.09 | | 0.107 B | 7 | 0.06 | 2 |
| 3 | | 0.452 | 18 | 0.70 | | 0.184 | 6 | 0.10 | | 0.111 B | 7 | 0.07 | 3 |
| 4 | | 0.426 | 15 | 0.55 | | 0.191 | 6 | 0.10 | | 0.108 B | 7 | 0.07 | 4 |
| 5 | | 0.303 | 14 | 0.37 | | 0.197 | 5 | 0.09 | | 0.105 B | 7 | 0.06 | 5 |
| 6 | | 0.265 | 13 | 0.32 | | 0.185 | 6 | 0.10 | 0.5 | 0.095 B | 8 S | 0.07 | 6 |
| 7 | | 0.282 | 11 | 0.28 | | 0.188 | 6 | 0.10 | | 0.092 B | 8 | 0.06 | 7 |
| 8 | | 0.248 | 10 | 0.21 | | 0.186 | 6 | 0.10 | | 0.086 B | 8 | 0.06 | 8 |
| 9 | 8.0 | 0.237 | 7 S | 0.14 | | 0.186 | 6 | 0.09 | | 0.081 B | 8 | 0.06 | 9 |
| 10 | | 0.280 | 7 | 0.17 | | 0.137 B | 9 | 0.11 | | 0.078 B | 8 | 0.05 | 10 |
| 11 | | 0.230 | 7 | 0.14 | | 0.159 B | 9 | 0.12 | | 0.071 B | 8 | 0.05 | 11 |
| 12 | | 0.245 | 7 | 0.15 | | 0.188 | 6 | 0.10 | | 0.086 B | 7 | 0.04 | 12 |
| 13 | | 0.250 | 7 | 0.15 | | 0.181 | 5 | 0.08 | | 0.081 B | 7 | 0.04 | 13 |
| 14 | | 0.250 | 8 | 0.13 | | 0.178 | 5 | 0.07 | | 0.055 B | 7 | 0.03 | 14 |
| 15 | | 0.242 | 8 | 0.13 | | 0.172 | 5 | 0.07 | | 0.032 B | 7 | 0.02 | 15 |
| 16 | | 0.234 | 8 | 0.12 | | 0.155 B | 9 | 0.12 | | 0.045 B | 5 | 0.02 | 16 |
| 17 | | 0.230 | 8 | 0.12 | | 0.158 B | 12 | 0.17 | | 0.026 B | 6 | 0.01 | 17 |
| 18 | | 0.215 | 8 | 0.11 | | 0.204 | 8 | 0.11 | | 0.029 B | 6 | 0.02 | 18 |
| 19 | | 0.214 | 5 | 0.08 | | 0.189 | 8 | 0.10 | | 0.036 B | 6 | 0.02 | 19 |
| 20 | | 0.218 | 5 | 0.09 | | 0.191 B | 8 | 0.10 | | 0.030 B | 5 | 0.02 | 20 |
| 21 | | 0.218 | 5 | 0.09 | | 0.155 B | 15 | 0.20 | | 0.018 B | 5 | 0.01 | 21 |
| 22 | | 0.217 | 5 | 0.09 | | 0.111 B | 15 | 0.15 | | 0.010 B | 5 | 0 | 22 |
| 23 | | 0.422 | 8 | 0.33 | | 0.084 B | 20 | 0.16 | | 0.007 B | 5 | 0 | 23 |
| 24 | | 0.548 | 17 | 0.80 | | 0.105 B | 21 | 0.19 | | 0.010 B | 5 | 0 | 24 |
| 25 | | 0.423 | 12 | 0.44 | | 0.131 B | 20 | 0.23 | | 0.016 B | 8 | 0.01 | 25 |
| 26 | | 0.348 | 8 | 0.24 | | 0.188 B | 13 | 0.19 | | 0.018 B | 4 | 0.01 | 26 |
| 27 | | 0.288 | 7 | 0.17 | | 0.176 B | 9 | 0.14 | | 0.013 B | 4 | 0 | 27 |
| 28 | 5.0 | 0.240 | 8 S | 0.12 | | 0.182 B | 8 | 0.11 | | 0.011 B | 4 | 0 | 28 |
| 29 | | 0.203 | 8 | 0.11 | | 0.137 B | 7 | 0.08 | | 0.009 B | 3 | 0 | 29 |
| 30 | | 0.208 | 8 | 0.11 | | 0.118 B | 8 | 0.08 | | 0.008 B | 3 | 0 | 30 |
| 31 | | 0.206 | 8 | 0.11 | | | | | | 0.004 B | 2 | 0 | 31 |
| TOTAL | | 8.908 | | 7.72 | | 4.987 | | 3.85 | | 1.547 | | 0.83 | TOTAL |
| MEAN | | 0.287 | | 0.25 | | 0.166 | | 0.12 | | 0.050 | | 0.03 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 46 375.34 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 434 | |
| MAXIMUM DAILY | 1 610 | ON APR 06 |
| MINIMUM DAILY | 2 | ON DEC 31 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 127 | |
| MAXIMUM DAILY | 3 880 | ON APR 06 |
| MINIMUM DAILY | 0 | ON DEC 22 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 53 N
LONG 98 18 40 W
DRAINAGE AREA 7 510 km²
REGULATED FLOW
INTERNATIONAL GAUGING STATION

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OD007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 09 | 15:00 | 24.6 | | 3.0 | 1 010 | R | 15 | 22 | 34 | 47 | 61 | 72 | 81 | 91 | 96 | 97 | | BNW |
| APR 10 | 16:20 | 26.2 | H | 4.0 | 1 080 | K | 20 | 25 | 37 | 52 | 67 | 78 | 86 | 98 | 99 | 100 | | BNW |
| APR 18 | 17:00 | 18.3 | | 8.0 | 817 | R | 24 | 31 | 49 | 67 | 78 | 84 | 89 | 94 | 97 | 98 | | BNW |
| APR 24 | 19:45 | 19.4 | H | 12.0 | 557 | K | 24 | 29 | 42 | 56 | 79 | 86 | 93 | 97 | 99 | 99 | | BNW |

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

RED RIVER AT EMERSON - STATION NO. 05OC001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 43.8 B | 22 | 82.8 | | 43.0 B | 7 | 28.0 | | 33.4 B | 6 | 17.3 | 1 |
| 2 | | 43.0 B | 21 | 78.0 | | 42.5 B | 7 | 28.7 | | 34.0 B | 7 | 20.8 | 2 |
| 3 | | 42.5 B | 21 | 77.1 | | 41.9 B | 7 | 25.3 | | 34.5 B | 8 | 23.6 | 3 |
| 4 | | 41.9 B | 21 | 76.0 | | 41.9 B | 7 | 25.3 | | 35.7 B | 8 | 24.7 | 4 |
| 5 | 0.5 | 41.3 B | 20 S | 71.4 | | 41.5 B | 7 | 25.2 | | 37.8 B | 8 | 28.2 | 5 |
| 6 | | 41.8 B | 19 | 68.3 | | 41.6 B | 7 | 25.2 | | 81.7 B | 12 | 84.0 | 6 |
| 7 | | 42.2 B | 19 | 69.3 | 0.5 | 41.3 B | 6 S | 21.4 | | 138 B | 28 | 306 | 7 |
| 8 | | 42.6 B | 18 | 66.6 | | 41.1 B | 6 | 21.3 | | 172 B | 53 | 788 | 8 |
| 9 | | 43.0 B | 18 | 66.3 | | 40.5 B | 6 | 21.0 | | 214 B | 93 | 1 720 | 9 |
| 10 | | 45.3 B | 17 | 66.5 | | 39.5 B | 6 | 20.5 | | 268 B | 130 | 3 010 | 10 |
| 11 | | 48.7 B | 17 | 68.6 | | 39.1 B | 6 | 20.3 | 0.5 | 317 B | 146 S | 4 000 | 11 |
| 12 | | 48.1 B | 16 | 66.5 | | 38.5 B | 6 | 20.0 | | 348 B | 144 | 4 330 | 12 |
| 13 | | 49.3 B | 16 | 68.2 | | 38.2 B | 6 | 19.8 | | 374 B | 134 | 4 330 | 13 |
| 14 | | 49.6 B | 16 | 68.8 | | 37.9 B | 6 | 19.6 | | 388 B | 116 | 3 980 | 14 |
| 15 | | 50.1 B | 15 | 64.9 | | 37.9 B | 6 | 19.6 | 0.5 | 388 B | 99 S | 3 320 | 15 |
| 16 | | 50.4 B | 15 | 65.3 | | 38.2 B | 6 | 19.8 | | 388 B | 85 | 2 850 | 16 |
| 17 | | 49.8 B | 14 | 60.2 | | 38.5 B | 6 | 20.0 | | 385 B | 78 | 2 630 | 17 |
| 18 | | 48.7 B | 14 | 58.9 | | 38.1 B | 6 | 20.3 | | 377 B | 70 | 2 280 | 18 |
| 19 | | 47.9 B | 14 | 57.9 | | 39.6 B | 7 | 24.0 | | 368 B | 68 | 2 100 | 19 |
| 20 | | 47.6 B | 14 | 57.6 | | 40.2 B | 6 | 27.8 | | 362 B | 63 | 1 970 | 20 |
| 21 | | 47.3 B | 13 | 53.1 | | 40.2 B | 6 | 27.8 | | 354 B | 60 | 1 840 | 21 |
| 22 | | 46.7 B | 12 | 48.4 | | 39.4 B | 6 | 27.2 | | 348 B | 57 | 1 710 | 22 |
| 23 | | 46.2 B | 12 | 47.8 | | 37.8 B | 7 | 22.9 | | 337 B | 54 | 1 570 | 23 |
| 24 | | 45.9 B | 11 | 43.6 | | 38.2 B | 6 | 18.8 | | 328 B | 51 | 1 450 | 24 |
| 25 | | 46.6 B | 11 | 43.3 | | 38.1 B | 6 | 18.2 | | 320 B | 49 | 1 380 | 25 |
| 26 | | 45.0 B | 10 | 38.9 | | 34.0 B | 5 | 17.5 | | 311 B | 45 | 1 320 | 26 |
| 27 | | 45.3 B | 10 | 39.1 | | 33.4 B | 5 | 17.3 | | 303 B | 47 | 1 230 | 27 |
| 28 | | 46.3 B | 10 | 39.1 | | 33.4 B | 6 | 17.3 | | 297 B | 47 | 1 210 | 28 |
| 29 | | 45.3 B | 9 | 35.2 | | | | | | 294 B | 46 | 1 170 | 29 |
| 30 | | 45.0 B | 8 | 31.1 | | | | | 0.5 | 297 B | 45 S | 1 150 | 30 |
| 31 | | 43.9 B | 8 | 30.3 | | | | | | 303 B | 48 | 1 200 | 31 |
| TOTAL | | 1 417.8 | | 1 811.1 | | 1 091.8 | | 615.2 | | 8 214.2 | | 52 870.6 | TOTAL |
| MEAN | | 45.7 | | 58.4 | | 39.0 | | 22.0 | | 265 | | 1 710 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 320 B | 47 | 1 300 | 10.0 | 134 | 285 S | 2 950 | 18.0 | 89.1 | 148 S | 1 120 | 1 |
| 2 | | 334 B | 46 | 1 380 | 12.0 | 131 | 239 S | 2 710 | 18.0 | 88.3 | 148 S | 1 090 | 2 |
| 3 | | 348 B | 49 | 1 470 | 12.0 | 130 | 241 S | 2 710 | 18.0 | 85.3 | 148 S | 1 090 | 3 |
| 4 | 0.5 | 365 B | 50 S | 1 580 | 12.0 | 128 | 229 S | 2 480 | 18.0 | 84.8 | 151 S | 1 100 | 4 |
| 5 | | 386 B | 53 | 1 810 | 12.0 | 122 | 211 S | 2 220 | | 83.6 | 150 | 1 080 | 5 |
| 6 | 0.5 | 442 B | 58 S | 2 140 | 12.0 | 118 | 215 S | 2 220 | | 81.9 | 147 | 1 040 | 6 |
| 7 | | 530 B | 68 | 3 180 | 12.0 | 114 | 208 S | 2 050 | | 79.6 | 144 | 990 | 7 |
| 8 | | 620 B | 208 | 11 000 | 12.0 | 110 | 188 S | 1 780 | | 76.2 | 142 | 941 | 8 |
| 9 | | 689 B | 384 | 23 200 | | 107 | 187 | 1 640 | | 73.4 | 141 | 894 | 9 |
| 10 | 3.0 | 714 | 315 S | 19 400 | 11.0 | 104 | 158 S | 1 400 | | 70.9 | 139 | 851 | 10 |
| 11 | 2.5 | 683 | 274 S | 15 700 | 10.0 | 101 | 158 S | 1 380 | | 88.8 | 138 | 824 | 11 |
| 12 | 1.0 | 609 | 258 S | 13 500 | 11.0 | 101 | 157 S | 1 370 | | 86.5 | 140 | 804 | 12 |
| 13 | 1.0 | 558 | 229 S | 11 000 | 11.0 | 102 | 161 S | 1 430 | | 85.0 | 138 | 784 | 13 |
| 14 | 1.0 | 486 | 229 S | 8 630 | 11.0 | 103 | 164 S | 1 480 | | 84.4 | 132 | 734 | 14 |
| 15 | 1.0 | 427 | 222 S | 8 180 | 11.0 | 109 | 162 S | 1 530 | | 70.0 | 242 | 1 480 | 15 |
| 16 | 1.0 | 371 | 217 S | 6 980 | 11.0 | 117 | 163 S | 1 650 | 18.0 | 135 | 858 S | 7 850 | 16 |
| 17 | 4.0 | 324 | 219 S | 6 130 | 11.0 | 125 | 161 S | 1 740 | 18.0 | 205 | 842 S | 11 400 | 17 |
| 18 | 5.0 | 277 | 227 S | 5 430 | 11.0 | 133 | 160 S | 1 840 | 19.0 | 219 | 858 S | 12 800 | 18 |
| 19 | 5.0 | 244 | 244 S | 5 140 | 12.0 | 135 | 161 S | 1 880 | 19.0 | 204 | 842 S | 11 300 | 19 |
| 20 | 7.0 | 225 | 268 S | 5 210 | 11.0 | 132 | 148 S | 1 870 | 20.0 | 181 | 592 S | 9 280 | 20 |
| 21 | 7.0 | 210 | 270 S | 4 800 | 12.0 | 127 | 145 S | 1 590 | | 180 | 528 | 7 310 | 21 |
| 22 | 7.0 | 200 | 287 S | 4 980 | 13.0 | 123 | 138 S | 1 430 | | 143 | 447 | 5 520 | 22 |
| 23 | 7.0 | 191 | 283 S | 4 670 | 13.0 | 118 | 144 S | 1 440 | | 131 | 387 | 4 150 | 23 |
| 24 | 8.0 | 182 | 286 S | 4 500 | 14.0 | 111 | 152 S | 1 480 | 21.0 | 131 | 320 S | 3 820 | 24 |
| 25 | 10.0 | 174 | 308 S | 4 850 | 14.0 | 108 | 127 S | 1 200 | 21.0 | 178 | 315 S | 4 840 | 25 |
| 26 | 11.0 | 168 | 305 S | 4 380 | 15.0 | 107 | 130 S | 1 200 | 22.0 | 263 | 322 S | 7 320 | 26 |
| 27 | 11.0 | 157 | 332 S | 4 500 | 15.0 | 104 | 131 S | 1 180 | 21.0 | 307 | 392 S | 10 400 | 27 |
| 28 | 11.0 | 150 | 330 S | 4 280 | 15.0 | 101 | 138 S | 1 200 | | 319 | 477 | 13 100 | 28 |
| 29 | 10.0 | 143 | 307 S | 3 780 | 15.0 | 97.5 | 144 S | 1 210 | 22.0 | 311 | 438 S | 11 700 | 29 |
| 30 | 10.0 | 138 | 274 S | 3 270 | 15.0 | 94.6 | 148 S | 1 200 | | 281 | 388 | 9 200 | 30 |
| 31 | | | | | 15.0 | 92.1 | 143 S | 1 140 | | | | | 31 |
| TOTAL | | 10 883 | | 197 340 | | 3 535.4 | | 52 270 | | 4 323.4 | | 144 152 | TOTAL |
| MEAN | | 363 | | 6 370 | | 114 | | 1 690 | | 144 | | 4 810 | MEAN |

RED RIVER AT EMERSON - STATION NO. 05DC001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 267 | 328 | 7 580 | | 95.8 | 353 | 2 920 | | 143 | 515 | 6 360 | 1 |
| 2 | | 267 | 300 | 8 400 | | 89.3 | 385 | 2 740 | 24.0 | 128 | 483 S | 5 280 | 2 |
| 3 | | 233 | 278 | 5 830 | 25.0 | 85.1 | 384 S | 2 600 | 22.0 | 110 | 487 S | 4 630 | 3 |
| 4 | | 224 | 284 | 5 110 | 25.0 | 84.0 | 316 S | 2 290 | | 98.2 | 470 | 3 990 | 4 |
| 5 | 23.0 | 217 | 349 S | 6 670 | 25.0 | 78.0 | 287 S | 1 880 | 22.0 | 88.3 | 433 S | 3 300 | 5 |
| 6 | | 226 | 344 | 6 780 | 25.0 | 73.8 | 281 S | 1 880 | | 80.6 | 383 | 2 730 | 6 |
| 7 | | 258 | 251 | 5 800 | 25.0 | 71.2 | 270 S | 1 880 | | 73.3 | 383 | 2 240 | 7 |
| 8 | | 288 | 299 | 7 440 | 25.0 | 68.8 | 207 S | 1 230 | 21.0 | 68.1 | 313 S | 1 840 | 8 |
| 9 | | 303 | 405 | 10 800 | | 88.2 | 181 | 1 040 | 20.0 | 85.3 | 270 S | 1 820 | 9 |
| 10 | | 305 | 488 | 12 800 | 25.5 | 83.1 | 178 S | 980 | 20.0 | 82.7 | 218 S | 1 180 | 10 |
| 11 | 23.0 | 282 | 383 S | 9 880 | | 80.7 | 175 | 918 | 18.0 | 80.7 | 183 S | 885 | 11 |
| 12 | | 274 | 324 | 7 870 | | 88.0 | 188 | 881 | | 88.3 | 128 | 888 | 12 |
| 13 | | 252 | 384 | 8 380 | 24.0 | 88.8 | 187 S | 788 | | 88.4 | 121 | 811 | 13 |
| 14 | 21.0 | 227 | 445 S | 8 730 | | 84.4 | 142 | 887 | 18.0 | 88.4 | 121 S | 811 | 14 |
| 15 | 21.0 | 204 | 480 S | 8 110 | 25.0 | 82.5 | 128 S | 872 | 18.0 | 88.3 | 84 S | 430 | 15 |
| 16 | | 181 | 488 | 7 130 | | 80.4 | 123 | 838 | 16.0 | 80.3 | 84 S | 438 | 16 |
| 17 | | 188 | 451 | 8 200 | | 48.4 | 121 | 818 | | 80.8 | 100 | 824 | 17 |
| 18 | | 140 | 448 | 5 430 | | 48.3 | 121 | 805 | | 81.8 | 101 | 837 | 18 |
| 19 | 21.0 | 128 | 445 S | 4 840 | | 48.2 | 120 | 479 | | 88.2 | 107 | 812 | 19 |
| 20 | 21.0 | 115 | 444 S | 4 410 | | 48.3 | 119 | 488 | 11.0 | 80.7 | 188 S | 1 100 | 20 |
| 21 | | 106 | 433 | 3 870 | 23.0 | 48.3 | 121 S | 474 | 11.0 | 98.8 | 188 S | 1 850 | 21 |
| 22 | | 101 | 388 | 3 480 | | 48.0 | 128 | 801 | 11.0 | 107 | 177 S | 1 840 | 22 |
| 23 | 22.0 | 101 | 355 S | 3 100 | | 47.8 | 138 | 571 | | 107 | 177 | 1 840 | 23 |
| 24 | | 108 | 333 | 3 020 | | 51.5 | 168 | 703 | | 101 | 183 | 1 420 | 24 |
| 25 | | 109 | 327 | 3 080 | | 88.2 | 182 | 1 030 | | 81.2 | 148 | 1 170 | 25 |
| 26 | | 110 | 330 | 3 140 | | 83.8 | 228 | 1 850 | | 82.4 | 134 | 954 | 26 |
| 27 | | 110 | 335 | 3 180 | | 108 | 298 | 2 810 | 13.0 | 75.2 | 120 S | 780 | 27 |
| 28 | | 110 | 341 | 3 240 | 24.0 | 118 | 376 S | 3 830 | | 88.5 | 108 | 837 | 28 |
| 29 | | 108 | 345 | 3 250 | | 128 | 447 | 4 880 | | 84.0 | 83 | 514 | 29 |
| 30 | | 108 | 348 | 3 190 | 24.0 | 148 | 507 S | 5 400 | | 81.0 | 80 | 422 | 30 |
| 31 | | 102 | 350 | 3 080 | | 182 | 648 | 7 170 | | | | | 31 |
| TOTAL | | 5 707 | | 178 930 | | 2 302.5 | | 55 887 | | 2 385.6 | | 50 181 | TOTAL |
| MEAN | | 184 | | 5 710 | | 74.3 | | 1 800 | | 79.8 | | 1 870 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12.0 | 58.7 | 72 S | 385 | | 85.0 | 48 S | 270 | | 54.4 B | 85 | 310 | 1 |
| 2 | 12.0 | 54.3 | 73 S | 350 | | 83.8 | 48 S | 270 | | 54.4 B | 89 | 324 | 2 |
| 3 | 12.0 | 54.8 | 81 S | 381 | 8.0 | 82.9 | 48 S | 261 | | 54.1 B | 71 | 332 | 3 |
| 4 | 12.0 | 53.2 | 88 S | 371 | | 82.2 | 45 | 242 | | 53.8 B | 78 | 353 | 4 |
| 5 | 12.0 | 51.6 | 84 S | 285 | | 80.9 | 46 | 337 | | 53.6 B | 87 | 404 | 5 |
| 6 | | 50.8 | 88 | 290 | | 89.4 | 48 | 231 | | 53.5 B | 86 | 453 | 6 |
| 7 | 12.0 | 50.6 | 85 S | 285 | | 88.8 | 45 | 226 | | 53.5 B | 108 | 489 | 7 |
| 8 | 11.0 | 51.1 | 82 S | 274 | | 88.1 | 46 | 235 | | 53.2 B | 111 | 510 | 8 |
| 9 | 11.0 | 51.9 | 80 S | 289 | | 81.8 | 81 | 271 | | 53.2 B | 112 | 515 | 9 |
| 10 | 11.0 | 52.3 | 81 S | 276 | | 83.9 | 84 | 287 | | 53.0 B | 113 | 517 | 10 |
| 11 | | 53.9 | 88 | 302 | | 83.7 | 84 | 287 | | 52.4 B | 114 | 518 | 11 |
| 12 | 11.0 | 54.5 | 80 S | 377 | | 83.5 | 84 | 286 | 0.5 | 52.1 B | 115 S | 518 | 12 |
| 13 | | 57.0 | 84 | 483 | | 83.7 | 84 | 287 | | 51.5 B | 116 | 512 | 13 |
| 14 | | 58.5 | 80 | 483 | | 83.8 | 85 | 302 | | 50.4 B | 113 | 492 | 14 |
| 15 | 11.0 | 60.7 | 85 S | 481 | | 83.4 | 85 | 301 | | 49.6 B | 110 | 471 | 15 |
| 16 | | 61.0 | 85 | 448 | | 83.1 | 85 | 300 | | 48.7 B | 107 | 450 | 16 |
| 17 | | 61.2 | 85 | 449 | | 82.9 | 85 | 298 | | 48.1 B | 104 | 432 | 17 |
| 18 | | 61.8 | 84 | 449 | | 82.8 | 84 | 293 | | 48.1 B | 100 | 416 | 18 |
| 19 | | 61.5 | 83 | 441 | | 82.3 | 84 | 291 | | 47.8 B | 97 | 401 | 19 |
| 20 | 11.0 | 64.5 | 83 S | 463 | | 82.5 | 83 | 288 | | 47.3 B | 93 | 380 | 20 |
| 21 | | 78.3 | 85 | 553 | | 82.3 | 83 | 285 | | 46.7 B | 88 | 347 | 21 |
| 22 | | 83.8 | 83 | 594 | | 82.1 | 83 | 284 | | 46.2 B | 78 | 311 | 22 |
| 23 | | 84.8 | 80 S | 586 | | 88.6 B | 82 | 283 | | 45.3 B | 86 | 270 | 23 |
| 24 | | 81.8 | 40 | 283 | | 46.7 B | 81 | 305 | | 44.7 B | 81 | 236 | 24 |
| 25 | | 78.5 | 41 S | 278 | | 84.8 B | 84 | 288 | | 44.2 B | 83 | 302 | 25 |
| 26 | | 78.0 | 43 | 282 | | 88.7 B | 88 | 288 | | 43.3 B | 44 | 185 | 26 |
| 27 | | 73.8 | 43 | 274 | | 87.2 B | 87 | 282 | | 42.8 B | 35 | 129 | 27 |
| 28 | | 71.5 | 43 S | 266 | | 86.1 B | 89 | 288 | | 42.2 B | 28 | 94.8 | 28 |
| 29 | | 70.0 | 44 | 266 | | 84.8 B | 81 | 285 | | 41.9 B | 18 | 65.2 | 29 |
| 30 | | 68.1 | 45 | 265 | | 84.7 B | 84 | 302 | | 41.8 B | 14 | 50.3 | 30 |
| 31 | | 66.5 | 47 | 270 | | | | | | 41.8 B | 11 | 39.8 | 31 |
| TOTAL | | 1 956.3 | | 10 958 | | 1 315.8 | | 8 246 | | 1 513.5 | | 10 714.8 | TOTAL |
| MEAN | | 63.1 | | 353 | | 80.5 | | 275 | | 48.8 | | 346 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 781 833.7 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 196 | |
| MAXIMUM DAILY | 666 | ON JUN 16 |
| MINIMUM DAILY | 8 | ON FEB 07 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 2 090 | |
| MAXIMUM DAILY | 23 300 | ON APR 08 |
| MINIMUM DAILY | 17.3 | ON FEB 27 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 30 N
LONG 97 12 40 W
DRAINAGE AREA 104 000 km²
REGULATED FLOW
INTERNATIONAL GAUGING STATION

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

RED RIVER AT EMERSON - STATION NO. 05OC001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 10 | 16:00 | 714 H | 3.0 | 281 K | 50 | 58 | 77 | 91 | 98 | 97 | 99 | 100 | | | | BNW |
| APR 11 | 12:00 | 687 | 3.5 | 281 R | 53 | 64 | 80 | 90 | 94 | 97 | 99 | 100 | | | | BNW |
| JUN 20 | 12:00 | 193 | 20.0 | 552 R | 48 | 54 | 73 | 87 | 95 | 97 | 98 | 99 | 100 | | | BNW |
| JUL 11 | 12:30 | 396 | 23.0 | 379 R | 48 | 53 | 80 | 93 | 98 | 98 | 99 | 100 | | | | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 70.9 B | 14 | 85.8 | | 87.0 B | 12 | 88.5 | | 87.9 B | 11 | 85.0 | 1 |
| 2 | | 70.1 B | 14 | 84.8 | | 87.2 B | 12 | 88.7 | | 87.3 B | 11 | 84.5 | 2 |
| 3 | | 69.3 B | 14 | 83.8 | | 87.5 B | 12 | 70.0 | | 86.5 B | 11 | 83.7 | 3 |
| 4 | | 68.4 B | 14 | 82.7 | | 86.9 B | 12 | 89.4 | | 87.1 B | 10 | 48.3 | 4 |
| 5 | | 68.2 B | 13 | 78.8 | | 86.4 B | 12 | 88.8 | | 88.2 B | 11 | 85.3 | 5 |
| 6 | | 87.1 B | 13 | 75.4 | | 88.3 B | 12 | 88.7 | | 83.7 B | 21 | 118 | 6 |
| 7 | | 85.8 B | 13 | 74.0 | | 88.1 B | 12 | 88.5 | | 104 B | 31 | 278 | 7 |
| 8 | | 86.2 B | 12 | 87.8 | | 88.6 B | 12 | 88.2 | | 182 B | 46 | 872 | 8 |
| 9 | | 84.5 B | 12 | 85.9 | | 88.3 B | 12 | 88.8 | | 187 B | 83 | 1 070 | 9 |
| 10 | | 84.1 B | 12 | 86.5 | 0.5 | 88.4 B | 12 E | 88.8 | 0.5 | 228 B | 103 E | 2 030 | 10 |
| 11 | | 84.3 B | 12 | 85.7 | | 85.1 B | 12 | 88.5 | | 278 B | 153 | 3 870 | 11 |
| 12 | | 84.3 B | 12 | 88.7 | | 85.2 B | 13 | 87.6 | | 380 B | 204 | 6 170 | 12 |
| 13 | | 84.0 B | 12 | 88.4 | | 84.1 B | 12 | 86.5 | | 410 B | 253 | 8 980 | 13 |
| 14 | 0.5 | 84.3 B | 12 E | 88.7 | | 83.8 B | 12 | 86.1 | | 485 B | 301 | 12 100 | 14 |
| 15 | | 85.2 B | 12 | 87.8 | | 83.3 B | 12 | 85.8 | | 500 B | 351 | 15 200 | 15 |
| 16 | | 86.0 B | 12 | 88.4 | | 82.8 B | 12 | 85.1 | | 515 B | 384 | 17 500 | 16 |
| 17 | | 86.1 B | 12 | 88.5 | | 82.7 B | 12 | 85.0 | | 525 B | 387 | 18 000 | 17 |
| 18 | | 86.0 B | 12 | 88.3 | | 82.6 B | 12 | 85.1 | | 531 B | 377 | 17 300 | 18 |
| 19 | | 86.4 B | 12 | 88.8 | | 82.9 B | 12 | 85.2 | | 519 B | 359 | 15 100 | 19 |
| 20 | | 86.0 B | 12 | 88.4 | | 83.5 B | 12 | 85.8 | | 508 B | 338 | 14 900 | 20 |
| 21 | | 86.6 B | 12 | 89.3 | | 83.8 B | 12 | 86.3 | | 500 B | 315 | 13 800 | 21 |
| 22 | | 87.1 B | 12 | 89.8 | | 83.6 B | 12 | 85.9 | | 484 B | 293 | 12 500 | 22 |
| 23 | | 86.3 B | 12 | 88.7 | | 82.5 B | 12 | 84.8 | | 487 B | 274 | 11 500 | 23 |
| 24 | | 86.0 B | 12 | 88.4 | | 82.4 B | 12 | 84.7 | | 479 B | 254 | 10 700 | 24 |
| 25 | | 85.9 B | 12 | 88.3 | | 81.2 B | 12 | 83.5 | | 471 B | 243 | 9 880 | 25 |
| 26 | | 85.6 B | 12 | 88.0 | | 80.3 B | 11 | 87.3 | | 485 B | 229 | 9 200 | 26 |
| 27 | | 86.1 B | 12 | 88.5 | | 89.4 B | 11 | 86.5 | | 469 B | 218 | 8 570 | 27 |
| 28 | | 87.1 B | 12 | 89.6 | | 86.7 B | 11 | 86.8 | | 485 B | 202 | 7 840 | 28 |
| 29 | | 87.6 B | 12 | 70 3 | | | | | | 485 B | 195 | 7 670 | 29 |
| 30 | | 87.6 B | 12 | 70.1 | | | | | | 480 B | 194 | 7 710 | 30 |
| 31 | | 87.4 B | 12 | 89.9 | | | | | | 494 B | 204 | 8 710 | 31 |
| TOTAL | | 2 050.6 | | 2 202.3 | | 1 785.0 | | 1 848.5 | | 10 882.7 | | 242 324.8 | TOTAL |
| MEAN | | 66.5 | | 71.0 | | 64.1 | | 66.9 | | 380 | | 7 820 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 881 B | 214 | 10 400 | 10.0 | 386 | 330 S | 11 300 | 17.0 | 256 E | 82 S | 1 150 | 1 |
| 2 | | 813 B | 223 | 11 800 | 10.0 | 388 | 310 S | 10 400 | | 251 E | 80 | 1 080 | 2 |
| 3 | | 688 B | 233 | 13 800 | | 381 | 304 | 10 000 | 16.0 | 246 E | 49 S | 1 040 | 3 |
| 4 | | 780 B | 243 | 16 400 | 11.0 | 378 | 318 S | 10 300 | | 233 E | 46 | 988 | 4 |
| 5 | | 880 B | 263 | 19 200 | 11.0 | 369 | 298 S | 9 440 | | 221 E | 50 | 895 | 5 |
| 6 | | 985 B | 295 | 22 600 | | 364 | 282 | 8 870 | 16.0 | 218 A | 55 S | 1 040 | 6 |
| 7 | 1.5 | 1 110 B | 288 S | 27 700 | | 354 | 261 | 8 580 | | 213 E | 52 | 957 | 7 |
| 8 | | 1 270 B | 318 | 34 900 | 11.0 | 345 | 239 S | 7 120 | | 207 E | 42 | 781 | 8 |
| 9 | | 1 430 B | 348 | 42 800 | | 340 | 208 | 6 140 | 16.0 | 201 A | 39 S | 977 | 9 |
| 10 | | 1 580 B | 378 | 51 700 | | 333 | 209 | 6 010 | | 191 | 38 | 827 | 10 |
| 11 | | 1 380 | 410 | 49 200 | 10.0 | 317 | 273 S | 7 480 | | 182 | 36 | 588 | 11 |
| 12 | 2.0 | 1 250 | 443 S | 47 700 | | 314 | 287 | 8 080 | | 174 | 37 | 556 | 12 |
| 13 | | 1 180 | 477 | 47 800 | 9.0 | 310 | 181 S | 5 210 | 19.0 | 170 | 37 S | 543 | 13 |
| 14 | 1.0 | 1 030 | 487 S | 43 300 | | 320 | 148 | 4 080 | | 165 | 38 | 513 | 14 |
| 15 | 1.0 | 935 | 407 S | 32 900 | 8.0 | 324 | 144 S | 4 140 | | 158 | 37 | 505 | 15 |
| 16 | 3.0 | 870 | 358 S | 25 800 | 9.0 | 332 | 140 S | 4 030 | | 180 | 36 | 488 | 16 |
| 17 | 2.0 | 765 | 436 S | 28 700 | | 338 | 133 | 3 880 | 20.0 | 214 | 37 S | 884 | 17 |
| 18 | 2.0 | 737 | 476 S | 30 300 | | 342 | 133 | 3 830 | | 292 | 42 | 1 080 | 18 |
| 19 | 3.0 | 688 | 430 S | 28 000 | | 350 | 134 | 4 110 | 25.0 | 338 | 81 S | 1 480 | 19 |
| 20 | 5.0 | 577 | 475 S | 25 700 | 11.0 | 352 | 135 S | 4 110 | | 351 | 105 | 3 180 | 20 |
| 21 | 6.0 | 501 | 386 S | 16 700 | | 351 | 130 | 3 940 | 19.5 | 344 | 85 S | 2 820 | 21 |
| 22 | 7.0 | 459 | 280 S | 11 100 | | 343 | 125 | 3 700 | | 345 | 182 | 4 530 | 22 |
| 23 | 8.0 | 428 | 269 S | 9 950 | 12.0 | 335 A | 121 S | 3 500 | | 314 | 182 | 4 380 | 23 |
| 24 | | 411 | 280 | 9 230 | 11.0 | 324 E | 119 S | 3 330 | 20.0 | 281 | 151 S | 3 670 | 24 |
| 25 | 10.0 | 413 | 280 S | 9 280 | | 315 E | 113 | 3 080 | | 288 | 141 | 3 240 | 25 |
| 26 | 10.0 | 433 | 281 S | 9 780 | 11.0 | 308 E | 102 S | 2 700 | | 303 | 130 | 3 380 | 26 |
| 27 | 9.0 | 436 | 204 S | 7 880 | | 298 E | 80 | 2 300 | 21.0 | 287 | 118 S | 3 770 | 27 |
| 28 | 8.0 | 421 | 327 S | 11 900 | | 293 E | 80 | 2 030 | | 414 | 114 | 4 120 | 28 |
| 29 | 8.0 | 400 | 334 S | 11 800 | 15.0 | 287 E | 70 S | 1 740 | | 444 | 126 | 4 630 | 29 |
| 30 | | 404 | 308 | 10 700 | | 278 E | 62 | 1 490 | | 462 | 182 | 7 500 | 30 |
| 31 | | | | | | 268 E | 57 | 1 320 | | | | | 31 |
| TOTAL | | 23 636 | | 715 800 | | 10 345 | | 166 230 | | 7 972 | | 81 120 | TOTAL |
| MEAN | | 788 | | 23 800 | | 334 | | 5 360 | | 265 | | 2 040 | MEAN |

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21.0 | 435 | 267 S | 10 000 | | 153 | 37 S | 488 | 20.0 | 196 | 49 S | 830 | 1 |
| 2 | | 412 | 238 | 8 400 | | 150 | 36 | 492 | | 194 | 85 | 1 420 | 2 |
| 3 | | 384 | 209 | 6 830 | | 144 | 42 | 523 | | 181 | 105 | 1 640 | 3 |
| 4 | 20.0 | 383 | 187 S | 5 880 | | 137 | 47 S | 556 | | 188 | 117 | 1 880 | 4 |
| 5 | | 347 | 174 | 5 220 | | 131 | 48 | 585 | 22.0 | 152 | 124 S | 1 630 | 5 |
| 6 | | 332 | 182 | 4 850 | | 127 | 53 | 582 | | 135 | 128 | 1 470 | 6 |
| 7 | 23.0 | 331 | 148 S | 4 280 | | 123 | 80 | 838 | | 123 | 121 | 1 280 | 7 |
| 8 | | 383 | 139 | 4 240 | | 118 | 88 S | 879 | 19.0 | 115 | 108 S | 1 070 | 8 |
| 9 | | 374 | 134 | 4 330 | | 116 | 88 | 892 | | 111 | 95 | 911 | 9 |
| 10 | | 382 | 143 | 4 840 | | 113 | 70 | 877 | | 107 | 90 | 832 | 10 |
| 11 | | 380 | 174 | 5 880 | | 109 | 68 | 850 | | 103 | 89 | 792 | 11 |
| 12 | | 393 | 228 | 7 540 | | 106 | 63 | 577 | | 99.6 | 87 | 750 | 12 |
| 13 | 25.0 | 366 | 277 S | 8 780 | | 103 | 52 | 463 | 18.0 | 95.5 | 86 S | 710 | 13 |
| 14 | | 341 | 256 | 7 540 | | 99.3 | 42 S | 360 | | 93.2 | 88 | 893 | 14 |
| 15 | | 314 | 198 | 5 370 | | 95.6 | 41 | 339 | | 96.0 | 81 | 885 | 15 |
| 16 | 25.0 | 292 | 147 S | 3 710 | | 93.6 | 88 S | 550 | 15.0 | 95.3 | 74 S | 616 | 16 |
| 17 | | 285 | 122 | 2 790 | 25.0 | 91.5 | 88 S | 696 | | 88.0 | 71 | 601 | 17 |
| 18 | 25.0 | 240 | 105 S | 2 180 | | 90.4 | 79 | 617 | | 96.4 | 69 | 587 | 18 |
| 19 | | 217 | 91 S | 1 710 | | 87.6 | 66 | 482 | | 95.5 | 67 | 578 | 19 |
| 20 | | 197 | 85 | 1 450 | | 86.6 | 53 | 387 | | 104 | 64 | 575 | 20 |
| 21 | | 180 | 78 | 1 230 | 22.0 | 90.2 | 40 S | 312 | 10.0 | 112 | 83 S | 810 | 21 |
| 22 | | 185 | 74 | 1 050 | | 87.6 | 28 | 220 | | 138 | 62 | 886 | 22 |
| 23 | | 182 | 68 | 908 | 21.0 | 86.6 | 25 S | 185 | | 142 | 61 | 748 | 23 |
| 24 | | 147 | 64 | 813 | | 88.3 | 28 | 221 | 10.0 | 148 | 80 S | 787 | 24 |
| 25 | 28.0 | 149 | 59 S | 780 | 23.0 | 89.2 | 42 S | 324 | | 148 | 59 | 744 | 25 |
| 26 | | 150 | 56 | 726 | | 98.6 | 50 | 417 | 12.0 | 137 A | 57 S | 675 | 26 |
| 27 | | 153 | 53 | 701 | | 118 | 64 | 661 | | 126 | 54 | 583 | 27 |
| 28 | | 166 | 50 | 674 | | 140 | 62 | 829 | | 117 | 51 | 518 | 28 |
| 29 | | 156 | 47 | 633 | 24.0 | 169 | 46 S | 832 | | 108 | 47 | 439 | 29 |
| 30 | | 156 | 44 | 593 | | 173 | 40 | 598 | 9.0 | 104 | 45 S | 404 | 30 |
| 31 | | 156 | 41 | 548 | | 168 | 34 | 545 | | | | | 31 |
| TOTAL | | 8 447 | | 114 275 | | 3 588 4 | | 15 859 | | 3 729.7 | | 25 510 | TOTAL |
| MEAN | | 272 | | 3 690 | | 116 | | 505 | | 124 | | 850 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 102 | 44 | 388 | | 188 | 63 | 1 020 | | 71.4 B | 23 | 142 | 1 |
| 2 | | 96.6 | 44 | 367 | | 188 | 62 | 1 010 | | 66.6 B | 22 | 127 | 2 |
| 3 | | 92.2 | 45 | 358 | | 195 | 62 | 1 040 | | 64.3 B | 21 | 117 | 3 |
| 4 | | 89.6 | 45 | 356 | | 201 E | 62 | 1 080 | | 67.1 B | 21 | 122 | 4 |
| 5 | 8.0 | 88.6 | 46 S | 353 | 5.0 | 204 A | 62 S | 1 090 | | 72.9 B | 20 | 128 | 5 |
| 6 | | 86.9 | 46 | 345 | | 205 | 63 | 1 470 | | 73.7 B | 19 | 121 | 6 |
| 7 | | 83.7 | 45 | 325 | | 208 A | 107 S | 1 930 | | 73.7 B | 19 | 121 | 7 |
| 8 | | 81.3 | 44 | 309 | | 157 | 103 | 1 400 | | 73.3 B | 19 | 120 | 8 |
| 9 | | 78.4 | 44 | 302 | | 105 | 85 | 771 | | 74.6 B | 19 | 122 | 9 |
| 10 | | 76.3 | 43 | 281 | | 106 | 88 | 823 | | 74.3 B | 19 | 122 | 10 |
| 11 | 8.0 | 78.2 | 43 S | 284 | | 108 | 84 | 885 | | 74.6 B | 18 | 118 | 11 |
| 12 | | 80.0 | 42 | 290 | | 107 | 44 S | 407 | | 74.1 B | 17 | 109 | 12 |
| 13 | | 81.9 | 42 | 297 | | 107 | 38 | 381 | | 74.3 B | 17 | 109 | 13 |
| 14 | | 84.2 | 46 | 335 | | 108 | 37 | 339 | | 72.2 B | 16 | 99.8 | 14 |
| 15 | | 86.0 | 50 | 372 | | 105 | 36 | 327 | | 70.8 B | 14 | 86.0 | 15 |
| 16 | | 87.9 | 53 S | 403 | | 104 | 35 | 314 | 0 S | 69.9 B | 16 S | 86.5 | 16 |
| 17 | | 87.8 | 54 | 410 | | 104 | 34 | 306 | | 69.2 B | 16 | 85.7 | 17 |
| 18 | | 88.2 | 54 | 412 | | 103 | 33 | 294 | | 69.6 B | 16 | 86.6 | 18 |
| 19 | | 88.3 | 53 | 408 | | 102 | 33 | 291 | | 69.9 B | 16 | 86.6 | 19 |
| 20 | | 85.9 | 50 | 388 | | 102 | 32 | 282 | | 69.3 B | 16 | 89.8 | 20 |
| 21 | | 90.8 | 48 | 381 | | 102 | 31 | 273 | | 69.0 B | 15 | 88.4 | 21 |
| 22 | | 87.7 | 43 | 355 | | 99.3 | 30 | 257 | | 67.4 B | 15 | 87.4 | 22 |
| 23 | 7.0 | 184 | 36 S | 953 | | 91.8 B | 29 | 230 | | 66.0 B | 15 | 85.5 | 23 |
| 24 | | 229 | 36 | 712 | | 87.8 B | 26 | 184 | | 65.7 B | 14 | 79.5 | 24 |
| 25 | | 225 | 36 | 700 | | 87.3 B | 27 | 204 | | 65.0 B | 14 | 78.8 | 25 |
| 26 | | 218 | 36 | 672 | | 82.1 B | 27 | 192 | | 64.2 B | 14 | 77.7 | 26 |
| 27 | | 206 | 41 | 726 | | 71.4 B | 26 | 180 | | 63.6 B | 14 | 77.2 | 27 |
| 28 | | 201 | 51 | 885 | | 70.5 B | 25 | 152 | | 63.2 B | 14 | 76.4 | 28 |
| 29 | | 186 | 60 | 1 010 | | 60.2 B | 24 | 186 | | 62.1 B | 13 | 69.8 | 29 |
| 30 | | 188 | 82 S | 1 080 | | 77.6 B | 23 | 154 | | 61.5 B | 13 | 69.1 | 30 |
| 31 | | 191 | 83 | 1 040 | | | | | | 60.6 B | 13 | 68.1 | 31 |
| TOTAL | | 3 743 7 | | 15 088 | | 3 632.8 | | 16 782 | | 2 136.1 | | 3 106.8 | TOTAL |
| MEAN | | 121 | | 485 | | 121 | | 559 | | 68.9 | | 100 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 1 381 073.4 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 185 | |
| MAXIMUM DAILY | 487 | ON APR 14 |
| MINIMUM DAILY | 10 | ON MAR 04 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 3 780 | |
| MAXIMUM DAILY | 51 700 | ON APR 10 |
| MINIMUM DAILY | 48.3 | ON MAR 04 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 26 N
LONG 96 55 54 W
DRAINAGE AREA 287 000 $km^2$
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 07 | 15:00 | 1 100 | | 1.5 | 286 | R | 30 | 40 | 62 | 77 | 86 | 93 | 98 | 99 | 99 | 100 | | BNW |
| APR 12 | 15:45 | 1 240 | | 5.0 | 308 | K | 31 | 40 | 65 | 89 | 96 | 97 | 98 | 100 | | | | BNW |
| APR 14 | 15:40 | 1 030 | M | 1.0 | 419 | K | 52 | 63 | 78 | 88 | 92 | 95 | 97 | 99 | 100 | | | BNW |
| APR 18 | 12:00 | 737 | | 2.0 | 458 | R | 34 | 43 | 62 | 79 | 90 | 96 | 98 | 99 | 100 | | | BNW |
| APR 19 | 12:15 | 737 | | 2.0 | 382 | K | 34 | 47 | 68 | 82 | 92 | 97 | 99 | 100 | | | | BNW |
| APR 18 | 15:40 | 737 | | 2.0 | 436 | K | 25 | 35 | 60 | 82 | 93 | 98 | 99 | 100 | | | | BNW |
| APR 25 | 15:40 | 413 | | 10.0 | 288 | K | 33 | 38 | 65 | 89 | 96 | 98 | 98 | 100 | | | | BNW |
| MAY 06 | 15:55 | 345 | M | 11.0 | 245 | K | 36 | 60 | 78 | 91 | 96 | 97 | 99 | 100 | | | | BNW |
| JUL 01 | 14:30 | 435 | M | 21.0 | 307 | K | 47 | 64 | 78 | 91 | 94 | 98 | 99 | 100 | | | | BNW |

M - DAILY MEAN DISCHARGE  K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL  R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 7.51 B | E | 5.19 | 1 |
| 2 | | | | | | | | | | 7.88 B | E | 5.25 | 2 |
| 3 | | | | | | | | | | 7.89 B | E | 5.32 | 3 |
| 4 | | | | | | | | | | 11.3 B | E | 7.81 | 4 |
| 5 | | | | | | | | | | 22.7 B | E | 15.7 | 5 |
| 6 | | | | | | | | | | 30.7 B | E | 21.2 | 6 |
| 7 | | | | | | | | | | 30.4 B | E | 21.0 | 7 |
| 8 | | | | | | | | | | 29.6 B | E | 20.5 | 8 |
| 9 | | | | | | | | | | 28.7 B | E | 19.8 | 9 |
| 10 | | | | | | | | | | 28.5 B | E | 19.7 | 10 |
| 11 | | | | | | | | | | 29.0 B | E | 20.0 | 11 |
| 12 | | | | | | | | | | 30.4 B | E | 21.0 | 12 |
| 13 | | | | | | | | | | 34.4 B | E | 23.8 | 13 |
| 14 | | | | | | | | | | 34.2 B | E | 23.6 | 14 |
| 15 | | | | | | | | | | 33.8 B | E | 23.4 | 15 |
| 16 | | | | | | | | | 0.5 | 33.4 B | E E | 23.1 | 16 |
| 17 | | | | | | | | | | 32.7 B | E | 22.6 | 17 |
| 18 | | | | | | | | | | 31.2 B | E | 21.6 | 18 |
| 19 | | | | | | | | | | 29.6 B | E | 20.5 | 19 |
| 20 | | | | | | | | | | 30.3 B | E | 23.6 | 20 |
| 21 | | | | | | | | | | 29.5 B | E | 22.8 | 21 |
| 22 | | | | | | | | | | 28.1 B | E | 21.9 | 22 |
| 23 | | | | | | | | | | 28.6 B | E | 22.2 | 23 |
| 24 | | | | | | | | | | 28.3 B | E | 22.0 | 24 |
| 25 | | | | | | | | | | 27.8 B | E | 21.6 | 25 |
| 26 | | | | | | | | | | 27.0 B | E | 21.0 | 26 |
| 27 | | | | | | | | | | 27.3 B | E | 21.2 | 27 |
| 28 | | | | | | | | | | 27.8 B | E | 21.5 | 28 |
| 29 | | | | | | | | | | 27.7 B | 10 | 23.9 | 29 |
| 30 | | | | | | | | | | 28.5 B | 10 | 24.6 | 30 |
| 31 | | | | | | | | | | 31.8 B | 12 | 33.0 | 31 |
| TOTAL | | | | | | | | | | 838.89 | | 620.47 | TOTAL |
| MEAN | | | | | | | | | | 27.0 | | 20.0 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 32.9 B | 14 | 39.8 | 8.0 | 23.7 | 8 E | 18.4 | 18.0 | 18.4 | 6 E | 8.54 | 1 |
| 2 | 0.5 | 33.4 B | 16 E | 46.2 | 12.0 | 22.6 | 9 E | 17.6 | | 18.2 | 6 | 9.43 | 2 |
| 3 | | 34.7 B | 19 | 57.0 | | 22.5 | 9 | 17.5 | | 17.7 | 6 | 8.18 | 3 |
| 4 | 0.5 | 35.0 B | 23 E | 69.6 | | 23.0 | 10 | 19.9 | | 17.1 | 6 | 8.88 | 4 |
| 5 | | 39.2 B | 33 | 112 | 13.0 | 23.0 | 11 E | 21.9 | 17.0 | 16.4 | 6 E | 8.50 | 5 |
| 6 | | 41.3 B | 93 | 332 | | 22.3 | 11 | 21.2 | | 15.4 | 6 | 7.98 | 6 |
| 7 | | 41.7 B | 103 | 371 | | 20.9 | 10 | 18.1 | | 14.5 | 6 | 7.52 | 7 |
| 8 | 4.0 | 51.8 | 87 E | 380 | | 19.1 | 10 | 16.5 | | 14.2 | 6 | 7.36 | 8 |
| 9 | | 51.3 | 76 | 337 | 12.0 | 17.7 | 9 E | 13.8 | | 13.7 | 6 | 7.10 | 9 |
| 10 | | 46.2 | 63 | 212 | | 16.6 | 9 | 12.8 | | 13.0 | 5 | 5.92 | 10 |
| 11 | 5.0 | 44.0 | 29 E | 110 | | 15.8 | 12 | 10.4 | 23.0 | 11.9 | 4 E | 4.11 | 11 |
| 12 | 4.0 | 43.1 | 25 E | 93.1 | | 17.0 | 33 | 48.5 | 22.0 | 11.2 | 4 E | 3.87 | 12 |
| 13 | 3.0 | 42.2 | 23 E | 83.9 | | 20.8 | 48 | 85.4 | - | 11.2 | 5 | 4.84 | 13 |
| 14 | 2.5 | 41.7 | 23 E | 82.8 | | 22.5 | 40 | 77.8 | 21.0 | 11.4 | 8 E | 7.88 | 14 |
| 15 | 1.0 | 41.3 | 21 E | 74.9 | | 24.5 | 32 | 67.7 | | 12.0 | 42 | 43.5 | 15 |
| 16 | 2.0 | 40.7 | 19 E | 66.8 | | 25.7 | 25 | 55.5 | | 14.4 | 38 | 47.3 | 16 |
| 17 | | 40.3 | 18 | 62.5 | | 26.3 | 18 | 40.9 | | 17.7 | 26 | 39.8 | 17 |
| 18 | 3.5 | 39.6 | 18 E | 61.6 | 11.0 | 26.6 | 14 E | 32.2 | | 20.2 | 18 | 31.4 | 18 |
| 19 | 2.5 | 38.9 | 18 E | 60.5 | | 26.4 | 13 | 29.7 | 21.0 | 21.3 | 16 E | 29.4 | 19 |
| 20 | 2.0 | 38.3 | 16 E | 52.8 | 12.0 | 26.1 | 12 E | 27.1 | 21.0 | 22.1 | 21 E | 40.1 | 20 |
| 21 | 3.0 | 37.6 | 19 E | 62.1 | | 25.7 | 10 | 22.2 | 23.0 | 22.7 | 20 E | 39.2 | 21 |
| 22 | 4.0 | 38.9 | 17 E | 64.2 | | 25.2 | 9 | 19.6 | 20.0 | 22.8 | 25 E | 48.8 | 22 |
| 23 | 4.0 | 36.9 | 22 E | 68.2 | 17.0 | 24.5 | 8 E | 16.8 | | 22.6 | 29 | 55.8 | 23 |
| 24 | 5.5 | 34.7 | 18 E | 64.0 | | 23.8 | 8 | 16.3 | | 23.0 | 28 | 55.6 | 24 |
| 25 | 6.0 | 33.0 | 16 E | 46.8 | 17.0 | 22.7 | 7 E | 13.7 | 24.0 | 23.8 | 28 E | 57.8 | 25 |
| 26 | 6.0 | 31.4 | 16 E | 43.4 | | 22.0 | 8 | 15.2 | | 24.4 | 29 | 61.1 | 26 |
| 27 | | 29.3 | 11 | 27.6 | 17.0 | 21.2 | 8 E | 16.6 | | 24.6 | 29 | 61.8 | 27 |
| 28 | 8.0 | 27.4 | 9 E | 21.3 | | 20.4 | 8 | 15.9 | 24.0 | 24.6 | 29 E | 62.1 | 28 |
| 29 | | 28.0 | 9 | 20.2 | | 19.7 | 8 | 15.3 | | 25.0 | 28 | 60.5 | 29 |
| 30 | 8.0 | 24.8 | 8 E | 19.3 | 16.0 | 18.3 | 8 E | 13.3 | 20.0 | 25.7 | 27 E | 60.0 | 30 |
| 31 | | | | | | 16.9 | 7 | 11.4 | | | | | 31 |
| TOTAL | | 1 134.8 | | 3 131 E | | 666.0 | | 435.2 | | 551.2 | | 895.39 | TOTAL |
| MEAN | | 37.6 | | 104 | | 22.1 | | 28.9 | | 18.4 | | 29.9 | MEAN |

MANITOBA

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 25.8 | 25 | 55.7 | 26.0 | 1.52 | 22 S | 2.88 | | 4.04 | 16 | 5.58 | 1 |
| 2 | 20.0 | 25.8 | 23 S | 51.5 | | 1.38 | 21 | 2.52 | | 3.89 | 15 | 4.85 | 2 |
| 3 | | 26.0 | 22 | 49.4 | | 1.35 | 18 | 2.16 | | 3.11 | 15 | 4.03 | 3 |
| 4 | | 25.8 | 21 | 47.0 | | 1.30 | 17 | 1.81 | 17.0 | 2.52 | 15 S | 3.27 | 4 |
| 5 | 19.0 | 25.9 | 21 S | 47.0 | 27.0 | 1.18 | 16 S | 1.63 | | 2.25 | 14 | 2.72 | 5 |
| 6 | | 25.8 | 22 | 49.0 | 26.0 | 1.12 | 15 S | 1.65 | | 1.87 | 13 | 2.21 | 6 |
| 7 | 24.0 | 25.7 | 23 S | 51.1 | | 1.09 | 13 | 1.22 | 19.0 | 1.72 | 12 S | 1.78 | 7 |
| 8 | | 25.4 | 26 | 57.1 | 27.0 | 1.01 | 11 S | 0.86 | | 1.64 | 32 | 4.53 | 8 |
| 9 | 25.0 | 25.0 | 31 S | 67.0 | | 0.942 | 10 | 0.81 | | 1.57 | 33 | 4.48 | 9 |
| 10 | | 24.4 | 35 | 73.8 | | 0.885 | 10 | 0.76 | | 1.34 | 23 | 2.66 | 10 |
| 11 | | 23.2 | 38 | 76.2 | 26.0 | 0.813 | 10 S | 0.70 | 15.0 | 1.05 | 19 S | 1.72 | 11 |
| 12 | 23.0 | 21.7 | 39 S | 73.1 | | 0.742 | 10 | 0.64 | | 0.956 | 18 | 1.49 | 12 |
| 13 | 24.0 | 19.8 | 40 S | 68.4 | | 0.695 | 9 | 0.54 | | 0.880 | 18 | 1.52 | 13 |
| 14 | | 17.5 | 40 | 60.5 | 26.0 | 0.610 | 9 S | 0.47 | | 0.908 | 18 | 1.41 | 14 |
| 15 | | 15.3 | 40 | 52.9 | | 0.585 | 9 | 0.43 | 13.0 | 0.851 | 18 S | 1.44 | 15 |
| 16 | | 13.1 | 40 | 45.3 | | 0.621 | 12 | 0.64 | | 0.958 | 18 | 1.85 | 16 |
| 17 | | 11.3 | 40 | 39.1 | 22.0 | 0.602 | 27 S | 1.17 | | 0.948 | 18 | 1.48 | 17 |
| 18 | 25.0 | 9.69 | 41 S | 34.3 | | 0.487 | 18 | 0.76 | | 0.873 | 18 | 1.36 | 18 |
| 19 | | 8.27 | 41 | 29.3 | | 0.447 | 14 | 0.54 | | 0.810 | 19 | 1.33 | 19 |
| 20 | | 8.95 | 40 | 34.0 | 20.0 | 0.397 | 12 S | 0.41 | 8.0 | 0.787 | 19 S | 1.31 | 20 |
| 21 | | 8.12 | 38 | 20.6 | | 0.382 | 11 | 0.36 | | 1.04 | 33 | 2.87 | 21 |
| 22 | 26.5 | 5.72 | 37 S | 18.3 | 22.0 | 0.378 | 10 S | 0.33 | | 1.24 | 24 | 2.57 | 22 |
| 23 | | 5.19 | 35 | 15.7 | | 0.388 | 10 | 0.32 | | 1.31 | 18 | 2.04 | 23 |
| 24 | | 4.58 | 32 | 12.7 | | 0.348 | 10 | 0.30 | | 1.30 | 17 | 1.91 | 24 |
| 25 | | 3.92 | 29 | 9.82 | 26.0 | 0.321 | 11 S | 0.31 | | 1.34 | 16 | 1.85 | 25 |
| 26 | 27.0 | 3.24 | 28 S | 7.28 | | 0.317 | 11 | 0.30 | 15.0 | 1.27 | 14 S | 1.54 | 26 |
| 27 | | 2.70 | 24 | 5.60 | | 0.307 | 12 | 0.32 | | 1.10 | 13 | 1.24 | 27 |
| 28 | | 2.36 | 23 | 4.73 | | 0.383 | 12 | 0.40 | | 1.02 | 12 | 1.05 | 28 |
| 29 | | 2.13 | 22 | 4.08 | 25.0 | 0.459 | 13 S | 0.62 | | 0.877 | 13 | 1.10 | 29 |
| 30 | | 1.83 | 22 | 3.48 | | 2.21 | 86 | 10.5 | | 1.00 | 18 | 1.84 | 30 |
| 31 | | 1.72 | 22 | 3.27 | 25.0 | 4.20 | 28 S | 9.43 | | | | | 31 |
| TOTAL | | 442.14 | | 1 157.23 | | 27.268 | | 45.60 | | 44.619 | | 58.48 | TOTAL |
| MEAN | | 14.3 | | 37.3 | | 0.879 | | 1.47 | | 1.48 | | 2.26 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10.0 | 1.01 | 12 S | 1.05 | | | | | | | | | 1 |
| 2 | | 0.943 | 11 | 0.90 | | | | | | | | | 2 |
| 3 | | 0.824 | 10 | 0.80 | | | | | | | | | 3 |
| 4 | | 0.831 | 11 | 0.86 | | | | | | | | | 4 |
| 5 | | 0.844 | 11 | 0.90 | | | | | | | | | 5 |
| 6 | 9.5 | 0.893 | 12 S | 1.03 | | | | | | | | | 6 |
| 7 | | 1.13 | 13 | 1.27 | | | | | | | | | 7 |
| 8 | | 1.72 | 18 | 2.33 | | | | | | | | | 8 |
| 9 | | 2.15 | 17 | 3.15 | | | | | | | | | 9 |
| 10 | | 2.60 | 17 | 3.82 | | | | | | | | | 10 |
| 11 | | 2.92 | 14 | 3.53 | | | | | | | | | 11 |
| 12 | | 3.06 | 12 | 3.17 | | | | | | | | | 12 |
| 13 | | 3.17 | 11 | 3.01 | | | | | | | | | 13 |
| 14 | | 3.18 | 12 | 3.30 | | | | | | | | | 14 |
| 15 | | 3.14 | 12 | 3.26 | | | | | | | | | 15 |
| 16 | 4.0 | 3.15 | 12 S | 3.28 | | | | | | | | | 16 |
| 17 | | 3.03 | 12 | 3.14 | | | | | | | | | 17 |
| 18 | | 3.14 | 12 | 3.26 | | | | | | | | | 18 |
| 19 | 4.0 | 4.02 | 13 S | 4.62 | | | | | | | | | 19 |
| 20 | | 4.55 | 12 | 4.73 | | | | | | | | | 20 |
| 21 | | 4.55 | 12 | 4.83 | | | | | | | | | 21 |
| 22 | | 4.85 | 13 | 5.27 | | | | | | | | | 22 |
| 23 | | 4.55 | 13 | 5.14 | | | | | | | | | 23 |
| 24 | | 4.46 | 14 | 5.39 | | | | | | | | | 24 |
| 25 | | 4.22 | 15 | 5.47 | | | | | | | | | 25 |
| 26 | 7.0 | 4.06 | 15 S | 5.84 | | | | | | | | | 26 |
| 27 | | 4.13 | 14 | 5.00 | | | | | | | | | 27 |
| 28 | 8.0 | 4.05 | 12 S | 4.20 | | | | | | | | | 28 |
| 29 | | 3.89 | 12 | 4.14 | | | | | | | | | 29 |
| 30 | | 3.85 | 12 | 3.99 | | | | | | | | | 30 |
| 31 | | 3.86 | 12 | 3.82 | | | | | | | | | 31 |
| TOTAL | | 93.105 | | 104.13 | | | | | | | | | TOTAL |
| MEAN | | 3.00 | | 3.36 | | | | | | | | | MEAN |

SUMMARY FOR THE MONTHS MAR TO OCT

TOTAL SUSPENDED SEDIMENT LOAD 8 859.30 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 21 | |
| MAXIMUM DAILY | 103 | ON APR 07 |
| MINIMUM DAILY | 4 | ON JUN 11 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 28.0 | |
| MAXIMUM DAILY | 380 | ON APR 06 |
| MINIMUM DAILY | 0.30 | ON AUG 24 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 16 N
LONG 96 41 15 W
DRAINAGE AREA 4 430 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

8 - SAMPLE(S) COLLECTED THIS DAY

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.52 B | 7 | 0.92 | | 0.847 B | 9 | 0.66 | | 0.713 B | 11 | 0.68 | 1 |
| 2 | | 1.49 B | 7 | 0.90 | | 0.836 B | 9 | 0.65 | | 0.739 B | 11 | 0.70 | 2 |
| 3 | | 1.37 B | 7 | 0.83 | | 0.800 B | 9 | 0.62 | | 0.747 B | 12 | 0.77 | 3 |
| 4 | | 1.38 B | 7 | 0.83 | | 0.840 B | 9 | 0.63 | | 0.881 B | 18 | 1.34 | 4 |
| 5 | | 1.39 B | 7 | 0.84 | | 0.565 B | 9 | 0.44 | | 2.26 B | 88 | 18.8 | 5 |
| 6 | | 1.39 B | 7 | 0.84 | | 0.536 B | 9 | 0.42 | | 18.2 B | 83 | 131 | 6 |
| 7 | | 1.31 B | 7 | 0.79 | | 0.483 B | 9 | 0.38 | | 38.6 B | 71 | 226 | 7 |
| 8 | | 1.27 B | 7 | 0.77 | | 0.435 B | 9 | 0.34 | | 34.1 B | 62 | 183 | 8 |
| 9 | | 1.33 B | 7 | 0.80 | | 0.452 B | 9 | 0.35 | | 33.3 B | 56 | 161 | 9 |
| 10 | | 1.35 B | 7 | 0.82 | | 0.481 B | 9 | 0.37 | | 31.6 B | 50 | 136 | 10 |
| 11 | | 1.29 B | 7 | 0.78 | | 0.481 B | 9 | 0.37 | | 27.0 B | 45 | 105 | 11 |
| 12 | | 1.28 B | 7 | 0.77 | | 0.484 B | 9 | 0.38 | | 32.6 B | 41 | 115 | 12 |
| 13 | | 1.32 B | 7 | 0.80 | | 0.500 B | 9 | 0.39 | | 39.9 B | 36 | 124 | 13 |
| 14 | | 1.36 B | 7 | 0.82 | | 0.500 B | 9 | 0.39 | | 41.1 B | 33 | 117 | 14 |
| 15 | | 1.35 B | 7 | 0.82 | | 0.805 B | 10 | 0.62 | | 37.9 B | 29 | 95.0 | 15 |
| 16 | | 1.31 B | 7 | 0.79 | | 0.778 B | 9 | 0.60 | 0.5 | 35.8 B | 25 S | 77.3 | 16 |
| 17 | | 1.28 B | 7 | 0.77 | | 0.757 B | 10 | 0.65 | | 34.5 B | 22 | 65.6 | 17 |
| 18 | 0.5 | 1.22 B | 7 S | 0.74 | | 0.768 B | 10 | 0.66 | | 32.9 B | 20 | 56.9 | 18 |
| 19 | | 1.21 B | 7 | 0.73 | | 0.745 B | 9 | 0.58 | | 30.9 B | 18 | 48.1 | 19 |
| 20 | | 1.30 B | 7 | 0.79 | | 0.724 B | 9 | 0.56 | | 29.3 B | 16 | 40.5 | 20 |
| 21 | | 1.31 B | 7 | 0.79 | | 0.720 B | 9 | 0.56 | | 28.0 B | 15 | 38.3 | 21 |
| 22 | | 1.27 B | 7 | 0.77 | | 0.731 B | 10 | 0.63 | | 27.8 B | 14 | 33.6 | 22 |
| 23 | | 1.21 B | 8 | 0.84 | | 0.721 B | 10 S | 0.62 | | 26.3 B | 13 | 29.5 | 23 |
| 24 | | 1.15 B | 8 | 0.78 | | 0.702 B | 10 | 0.61 | | 26.1 B | 13 | 29.3 | 24 |
| 25 | | 1.05 B | 8 | 0.73 | | 0.702 B | 10 | 0.61 | | 26.2 B | 13 | 29.4 | 25 |
| 26 | | 0.902 B | 8 | 0.62 | | 0.701 B | 10 | 0.61 | | 25.7 B | 13 | 28.9 | 26 |
| 27 | | 0.796 B | 8 | 0.55 | | 0.688 B | 10 | 0.59 | | 25.0 B | 14 | 30.2 | 27 |
| 28 | | 0.837 B | 8 | 0.58 | | 0.685 B | 10 | 0.59 | | 24.6 B | 15 | 31.9 | 28 |
| 29 | | 0.819 B | 8 | 0.56 | | | | | | 25.6 B | 16 | 35.4 | 29 |
| 30 | | 0.827 B | 8 | 0.64 | | | | | | 26.6 B | 17 | 39.1 | 30 |
| 31 | | 0.870 B | 8 | 0.60 | | | | | | 29.5 B | 18 | 45.9 | 31 |
| TOTAL | | 37.883 | | 23.70 | | 18.111 | | 14.68 | | 792.320 | | 2 070.19 | TOTAL |
| MEAN | | 1.22 | | 0.76 | | 0.647 | | 0.52 | | 25.6 | | 66.8 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 35.2 B | 20 | 60.8 | 8.0 | 28.5 | 65 S | 160 | 14.0 | 21.0 | 28 S | 50.5 | 1 |
| 2 | | 35.6 B | 23 S | 70.5 | 8.0 | 27.1 | 52 S | 122 | 15.0 | 20.3 | 23 S | 40.3 | 2 |
| 3 | | 32.7 B | 25 | 70.8 | 10.0 | 25.8 | 47 S | 105 | | 19.2 | 22 | 37.6 | 3 |
| 4 | | 31.4 B | 31 | 84.1 | 9.0 | 25.7 | 49 S | 109 | 15.0 | 19.0 | 24 S | 39.4 | 4 |
| 5 | | 31.4 B | 41 | 111 | 10.0 | 26.2 | 47 S | 106 | 14.0 | 18.1 | 22 S | 34.4 | 5 |
| 6 | | 33.1 B | 67 S | 192 | 11.0 | 25.8 | 44 S | 98.1 | 13.0 | 17.2 | 27 S | 40.1 | 6 |
| 7 | 0.5 | 36.6 B | 128 S | 401 | 10.0 | 24.5 | 43 S | 91.0 | 14.0 | 15.9 | 33 S | 31.6 | 7 |
| 8 | 0.5 | 52.3 B | 246 S | 1 110 | 10.0 | 22.9 | 38 S | 75.2 | 16.0 | 14.8 | 33 S | 28.4 | 8 |
| 9 | 0.5 | 86.5 | 350 S | 2 920 | 11.0 | 21.2 | 42 S | 76.8 | 16.0 | 14.2 | 34 S | 29.4 | 9 |
| 10 | 2.0 | 75.2 | 181 S | 1 180 | 11.0 | 19.8 | 37 S | 63.3 | 17.0 | 13.5 | 22 S | 25.7 | 10 |
| 11 | 4.0 | 62.6 | 167 S | 848 | 9.0 | 18.8 | 33 S | 53.5 | 19.0 | 12.5 | 23 S | 25.0 | 11 |
| 12 | 3.0 | 57.3 | 152 S | 783 | 8.0 | 18.5 | 33 S | 52.7 | 21.0 | 11.5 | 20 S | 20.0 | 12 |
| 13 | 1.0 | 54.3 | 128 S | 601 | 7.0 | 21.5 | 38 S | 70.8 | 12.0 | 11.2 | 22 S | 21.3 | 13 |
| 14 | 1.0 | 51.8 | 118 S | 534 | 8.0 | 28.7 | 44 S | 97.7 | 13.0 | 11.0 | 19 S | 18.1 | 14 |
| 15 | 1.0 | 51.0 | 137 S | 604 | 7.0 | 27.6 | 44 S | 105 | 18.0 | 11.7 | 19 S | 19.2 | 15 |
| 16 | 1.0 | 50.1 | 118 S | 511 | 7.0 | 29.0 | 52 S | 130 | | 12.5 | 21 | 22.7 | 16 |
| 17 | 2.0 | 49.2 | 111 S | 472 | 8.0 | 28.8 | 54 S | 139 | 18.0 | 15.4 | 28 S | 38.6 | 17 |
| 18 | 4.0 | 46.2 | 101 S | 421 | 10.0 | 30.5 | 51 S | 134 | 17.0 | 19.2 | 35 S | 58.1 | 18 |
| 19 | 4.0 | 47.4 | 93 S | 381 | 11.0 | 30.5 | 54 S | 142 | 19.0 | 21.4 | 38 S | 70.3 | 19 |
| 20 | 5.5 | 48.4 | 98 S | 393 | 10.0 | 29.9 | 45 S | 116 | | 22.6 | 41 | 80.1 | 20 |
| 21 | 7.0 | 45.3 | 103 S | 403 | 12.0 | 29.4 | 42 S | 107 | 19.0 | 23.7 | 41 S | 84.0 | 21 |
| 22 | 8.0 | 44.5 | 95 S | 365 | 12.0 | 28.8 | 46 S | 114 | 21.0 | 24.9 | 42 S | 90.4 | 22 |
| 23 | 8.0 | 43.1 | 91 S | 339 | 12.0 | 28.1 | 48 | 117 | | 24.7 | 47 | 100 | 23 |
| 24 | 9.0 | 41.6 | 97 S | 349 | 13.0 | 27.4 | 49 S | 118 | 22.0 | 24.8 | 52 S | 111 | 24 |
| 25 | 10.0 | 40.0 | 95 S | 328 | 12.0 | 26.3 | 50 S | 114 | 22.0 | 25.4 | 47 S | 103 | 25 |
| 26 | 11.0 | 38.1 | 84 S | 277 | 10.0 | 28.3 | 40 S | 87.4 | | 25.0 | 45 | 103 | 26 |
| 27 | 10.0 | 38.0 | 74 S | 230 | 14.0 | 24.3 | 38 S | 75.6 | 21.0 | 26.5 | 48 S | 110 | 27 |
| 28 | 8.0 | 33.6 | 65 S | 188 | 16.0 | 23.5 | 49 S | 99.5 | | 26.6 | 50 | 115 | 28 |
| 29 | 7.0 | 31.7 | 67 S | 184 | 14.0 | 22.8 | 31 S | 61.1 | 21.0 | 26.6 | 52 S | 120 | 29 |
| 30 | 8.0 | 30.4 | 61 S | 160 | 14.0 | 22.3 | 28 S | 53.8 | | 27.2 | 54 | 127 | 30 |
| 31 | | | | | 14.0 | 21.8 | 31 S | 58.4 | | | | | 31 |
| TOTAL | | 1 362.8 | | 14 543.0 | | 789.4 | | 3 051.3 | | 579.4 | | 1 785.5 | TOTAL |
| MEAN | | 45.4 | | 486 | | 25.5 | | 98.4 | | 19.3 | | 59.9 | MEAN |

MANITOBA

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19.0 | 27.5 | 57 S | 135 | 22.0 | 1.87 | 18 S | 2.88 | | 2.75 | 57 | 13.5 | 1 |
| 2 | | 27.8 | 60 | 144 | | 1.71 | 18 | 2.22 | | 2.80 | 38 | 8.71 | 2 |
| 3 | | 26.5 | 62 | 153 | 23.0 | 1.60 | 14 S | 1.84 | 21.0 | 2.80 | 31 S | 8.98 | 3 |
| 4 | | 26.3 | 64 | 156 | | 1.51 | 14 | 1.62 | | 2.35 | 33 | 6.73 | 4 |
| 5 | | 26.5 | 64 | 158 | 27.0 | 1.45 | 14 S | 1.78 | 19.0 | 2.08 | 31 S | 5.60 | 5 |
| 6 | | 26.3 | 61 | 149 | 24.0 | 1.34 | 12 S | 1.38 | | 2.01 | 28 | 4.86 | 6 |
| 7 | 20.0 | 25.0 | 58 S | 140 | | 1.24 | 12 | 1.35 | 20.0 | 1.79 | 27 S | 4.18 | 7 |
| 8 | | 27.4 | 58 | 137 | | 1.18 | 12 | 1.18 | | 1.84 | 28 | 3.87 | 8 |
| 9 | 23.0 | 26.7 | 62 S | 145 | 22.0 | 1.08 | 12 S | 1.13 | 15.0 | 1.73 | 30 S | 4.48 | 9 |
| 10 | | 25.8 | 65 | 145 | | 1.03 | 14 | 1.26 | | 1.80 | 29 | 4.01 | 10 |
| 11 | | 24.8 | 64 | 137 | | 0.955 | 18 | 1.32 | | 1.52 | 28 | 3.68 | 11 |
| 12 | 21.0 | 23.4 | 58 S | 118 | 21.0 | 0.884 | 15 S | 1.15 | | 1.43 | 26 | 3.21 | 12 |
| 13 | 24.0 | 21.8 | 53 S | 98 S | | 0.802 | 13 | 0.90 | 12.0 | 1.26 | 24 S | 2.81 | 13 |
| 14 | 24.0 | 19.3 | 56 S | 83.4 | 20.0 | 0.722 | 12 S | 0.75 | | 1.20 | 27 | 2.80 | 14 |
| 15 | | 15.7 | 58 | 80.8 | | 0.648 | 12 | 0.67 | | 1.37 | 36 | 4.33 | 15 |
| 16 | 24.0 | 14.3 | 53 S | 65.5 | | 0.571 | 14 | 0.69 | 12.0 | 1.26 | 23 S | 2.54 | 16 |
| 17 | | 12.0 | 50 | 51.8 | | 0.577 | 23 | 1.15 | | 1.30 | 17 | 1.91 | 17 |
| 18 | | 10.1 | 47 | 41.0 | 20.0 | 0.550 | 50 S | 2.38 | | 1.38 | 18 | 1.78 | 18 |
| 19 | 24.0 | 8.78 | 43 S | 32.5 | | 0.488 | 90 | 3.84 | 9.0 | 1.39 | 15 S | 1.87 | 19 |
| 20 | | 7.38 | 40 | 25.4 | 18.0 | 0.487 | 84 S | 3.85 | | 1.24 | 18 | 2.04 | 20 |
| 21 | 25.0 | 6.01 | 37 S | 19.2 | | 0.488 | 85 | 2.74 | | 1.25 | 41 | 4.46 | 21 |
| 22 | | 5.28 | 33 | 15.0 | | 0.587 | 81 | 4.62 | 9.0 | 1.34 | 39 S | 4.05 | 22 |
| 23 | 23.0 | 4.80 | 30 S | 12.4 | 18.0 | 0.714 | 72 S | 4.44 | | 1.80 | 31 | 2.80 | 23 |
| 24 | | 4.38 | 27 | 10.3 | | 0.857 | 62 | 4.59 | 8.0 | 1.71 | 17 S | 2.61 | 24 |
| 25 | 23.0 | 3.88 | 25 S | 8.38 | | 1.12 | 55 | 5.71 | | 1.75 | 18 | 2.42 | 25 |
| 26 | | 3.38 | 24 | 7.01 | | 0.883 | 54 | 4.03 | | 1.82 | 17 | 2.87 | 26 |
| 27 | | 3.03 | 23 | 6.02 | 22.0 | 0.844 | 44 S | 3.21 | | 1.80 | 33 | 5.14 | 27 |
| 28 | 23.0 | 2.75 | 22 S | 5.23 | | 1.06 | 34 | 3.11 | 12.0 | 1.86 | 42 S | 6.75 | 28 |
| 29 | | 2.62 | 20 | 4.18 | | 1.01 | 27 | 2.36 | | 1.89 | 41 | 6.70 | 29 |
| 30 | | 2.34 | 19 | 3.84 | 22.0 | 0.877 | 36 S | 2.38 | | 1.46 | 26 | 3.22 | 30 |
| 31 | | 2.32 | 17 | 3.41 | | 0.886 | 85 | 5.58 | | | | | 31 |
| TOTAL | | 675.77 | | 2 302.17 | | 30.162 | | 74.84 | | 51.09 | | 126.81 | TOTAL |
| MEAN | | 15.3 | | 74.3 | | 0.973 | | 2.41 | | 1.70 | | 4.29 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.38 | 21 | 2.50 | | 3.35 | 21 | 6.08 | | 4.52 B | 12 | 4.89 | 1 |
| 2 | | 1.57 | 20 | 2.71 | | 3.24 | 20 | 5.80 | | 4.11 B | 10 | 3.86 | 2 |
| 3 | | 1.82 | 23 | 3.02 | 3.5 | 3.19 | 19 S | 5.18 | | 3.78 B | 6 | 2.81 | 3 |
| 4 | 9.0 | 1.63 | 38 S | 4.88 | | 3.35 | 20 | 5.83 | | 3.66 B | 7 | 3.17 | 4 |
| 5 | | 1.78 | 31 | 4.77 | 5.0 | 3.08 | 22 S | 5.87 | 0.5 | 3.32 B | 6 S | 1.72 | 5 |
| 6 | | 1.80 | 17 | 2.78 | | 2.61 | 21 | 5.10 | | 2.98 B | 5 | 1.84 | 6 |
| 7 | | 1.60 | 13 | 1.80 | | 2.88 | 14 | 3.32 | | 2.73 B | 5 | 1.42 | 7 |
| 8 | 7.0 | 0.949 | 12 S | 0.98 | | 2.61 | 10 | 2.28 | | 2.49 B | 5 | 1.38 | 8 |
| 9 | | 1.02 | 14 | 1.23 | 0.5 | 2.53 | 6 S | 1.75 | | 2.31 B | 5 | 1.15 | 9 |
| 10 | 9.0 | 1.84 | 27 S | 3.83 | | 2.71 P | 13 | 2.81 | | 1.97 B | 5 | 1.02 | 10 |
| 11 | | 1.84 | 22 | 3.80 | | 3.36 B | 25 | 7.24 | | 1.66 B | 6 | 0.98 | 11 |
| 12 | | 2.07 | 13 | 2.15 | 0.5 | 3.42 B | 22 S | 6.50 | | 1.85 B | 7 | 1.12 | 12 |
| 13 | | 2.13 | 13 | 2.21 | | 2.38 B | 16 | 3.70 | | 1.78 B | 7 | 1.08 | 13 |
| 14 | 3.0 | 2.20 | 14 S | 2.86 | | 1.82 B | 17 | 2.67 | | 1.88 B | 7 | 1.02 | 14 |
| 15 | | 2.21 | 16 | 3.44 | | 1.48 B | 17 | 2.17 | | 1.54 B | 7 | 0.93 | 15 |
| 16 | 4.0 | 2.17 | 22 S | 4.12 | 0.5 | 1.86 B | 17 S | 2.44 | | 1.38 B | 6 | 0.72 | 16 |
| 17 | | 2.13 | 15 | 2.94 | | 1.55 B | 16 | 2.41 | | 1.15 B | 7 | 0.72 | 17 |
| 18 | 5.0 | 2.34 | 10 S | 2.02 | | 2.32 B | 21 | 4.21 | | 1.03 B | 7 | 0.62 | 18 |
| 19 | 3.0 | 2.84 | 14 S | 3.44 | | 2.97 B | 27 | 8.83 | | 0.817 B | 7 | 0.55 | 19 |
| 20 | | 3.40 | 24 | 8.89 | | 3.18 B | 38 | 10.7 | | 0.868 B | 7 | 0.51 | 20 |
| 21 | | 3.81 | 77 | 25.3 | | 3.46 B | 35 | 10.4 | | 0.878 B | 7 | 0.53 | 21 |
| 22 | | 3.94 | 64 | 21.8 | | 3.43 B | 27 | 8.00 | | 0.959 B | 8 | 0.66 | 22 |
| 23 | | 4.03 | 51 | 17.8 | | 3.08 B | 33 | 8.08 | | 1.03 B | 8 | 0.71 | 23 |
| 24 | | 4.15 | 42 | 15.1 | | 3.07 B | 31 | 7.76 | | 1.05 B | 8 | 0.75 | 24 |
| 25 | 5.0 | 4.01 | 37 S | 12.8 | | 2.90 B | 30 | 7.46 | | 1.14 B | 8 | 0.79 | 25 |
| 26 | | 3.81 | 33 | 10.9 | | 3.46 B | 30 | 8.86 | | 1.12 B | 8 | 0.77 | 26 |
| 27 | | 3.66 | 30 | 9.48 | | 3.37 B | 18 | 5.53 | | 1.22 B | 8 | 0.84 | 27 |
| 28 | | 3.57 | 28 | 8.64 | | 4.70 B | 17 | 8.00 | | 1.24 B | 7 | 0.75 | 28 |
| 29 | | 3.54 | 25 | 7.95 | | 4.87 B | 18 | 8.73 | | 1.09 B | 7 | 0.65 | 29 |
| 30 | 3.0 | 3.55 | 24 S | 7.38 | | 4.67 B | 14 | 5.65 | | 0.985 B | 7 | 0.60 | 30 |
| 31 | | 3.46 | 32 | 8.58 | | | | | | 1.01 B | 7 | 0.61 | 31 |
| TOTAL | | 78.849 | | 206.21 | | 86.83 | | 184.97 | | 57.556 | | 37.08 | TOTAL |
| MEAN | | 2.67 | | 6.72 | | 2.95 | | 6.17 | | 1.88 | | 1.20 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 24 404.23 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 65 | |
| MAXIMUM DAILY | 350 | ON APR 08 |
| MINIMUM DAILY | 5 | ON DEC 05 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 66.5 | |
| MAXIMUM DAILY | 2 930 | ON APR 08 |
| MINIMUM DAILY | 0.34 | ON FEB 05 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 53 N
LONG 97 03 15 W
DRAINAGE AREA 9 150 km²
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 318 B | 15 | 410 | | 531 B | 25 | 1 130 | | 538 B | 21 | 976 | 1 |
| 2 | | 335 B | 15 | 421 | | 503 B | 25 | 1 080 | | 544 B | 22 | 1 030 | 2 |
| 3 | | 323 B | 15 | 418 | | 493 B | 25 | 1 080 | | 550 B | 22 | 1 050 | 3 |
| 4 | 0.5 | 319 B | 15 S | 441 | | 485 B | 24 | 1 030 | | 554 B | 22 | 1 050 | 4 |
| 5 | | 317 B | 15 | 438 | | 504 B | 23 | 1 000 | | 555 B | 22 | 1 050 | 5 |
| 6 | | 327 B | 15 | 452 | | 515 B | 24 | 1 070 | | 559 B | 22 | 1 060 | 6 |
| 7 | | 343 B | 14 | 415 | | 512 B | 22 | 973 | | 563 B | 23 | 1 120 | 7 |
| 8 | | 361 B | 14 | 489 | | 493 B | 21 | 894 | | 560 B | 23 | 1 110 | 8 |
| 9 | | 373 B | 17 | 546 | | 477 B | 20 | 824 | 0.5 | 550 B | 24 S | 1 140 | 9 |
| 10 | | 385 B | 17 | 580 | | 470 B | 20 | 812 | | 540 B | 23 | 1 070 | 10 |
| 11 | | 408 B | 16 | 584 | 0.5 | 473 B | 18 S | 776 | | 537 B | 21 | 974 | 11 |
| 12 | | 400 B | 16 | 553 | | 478 B | 18 | 785 | | 536 B | 20 | 930 | 12 |
| 13 | | 390 B | 19 | 640 | | 482 B | 18 | 751 | | 525 B | 20 | 907 | 13 |
| 14 | 0.5 | 390 B | 18 S | 607 | | 480 B | 18 | 788 | | 496 B | 19 | 818 | 14 |
| 15 | | 392 B | 19 | 644 | | 471 B | 18 | 773 | | 486 B | 18 | 725 | 15 |
| 16 | | 397 B | 20 | 688 | | 470 B | 18 | 772 | | 439 B | 18 | 807 | 16 |
| 17 | 0.5 | 405 B | 22 S | 770 | | 485 B | 20 | 838 | | 431 B | 18 | 696 | 17 |
| 18 | | 405 B | 21 | 735 | | 511 B | 19 | 839 | | 434 B | 18 | 800 | 18 |
| 19 | | 397 B | 21 | 720 | | 532 B | 19 | 873 | | 436 B | 19 | 882 | 19 |
| 20 | | 406 B | 22 | 772 | | 541 B | 20 | 935 | | 426 B | 13 | 481 | 20 |
| 21 | | 434 B | 24 | 900 | | 532 B | 18 | 873 | | 415 B | 12 | 430 | 21 |
| 22 | | 465 B | 23 | 924 | | 504 B | 20 | 871 | | 388 B | 12 | 413 | 22 |
| 23 | | 491 B | 24 | 1 020 | | 474 B | 20 | 826 | | 389 B | 13 | 403 | 23 |
| 24 | | 504 B | 25 | 1 080 | | 472 B | 20 | 816 | | 383 B | 12 | 407 | 24 |
| 25 | | 508 B | 25 | 1 100 | 0.5 | 483 B | 20 S | 852 | 0.5 | 398 B | 11 S | 378 | 25 |
| 26 | | 507 B | 25 | 1 100 | | 517 B | 21 | 936 | | 394 B | 10 | 340 | 26 |
| 27 | | 510 B | 25 | 1 100 | | 532 B | 21 | 985 | | 378 B | 9 | 295 | 27 |
| 28 | | 515 B | 26 | 1 180 | | 536 B | 21 | 973 | | 380 B | 8 | 248 | 28 |
| 29 | | 526 B | 27 | 1 230 | | | | | | 344 B | 8 | 238 | 29 |
| 30 | | 536 B | 27 | 1 280 | | | | | 0.5 | 341 B | 7 S | 208 | 30 |
| 31 | 0.5 | 536 B | 27 S | 1 250 | | | | | | 343 B | 7 | 207 | 31 |
| TOTAL | | 12 921 | | 33 438 | | 13 970 | | 25 187 | | 14 397 | | 21 433 | TOTAL |
| MEAN | | 417 | | 768 | | 499 | | 899 | | 464 | | 691 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 350 B | 8 | 242 | | 1 440 B | 320 | 37 400 | | 895 | 88 | 5 780 | 1 |
| 2 | | 374 B | 6 | 194 | | 1 850 E | 190 | 25 400 | | 703 | 103 | 6 240 | 2 |
| 3 | | 402 B | 7 | 243 | 2.0 | 1 340 E | 148 S | 17 300 | | 738 | 119 | 7 800 | 3 |
| 4 | | 405 B | 7 | 246 | | 1 260 E | 132 | 14 800 | 13.0 | 757 | 141 S | 8 320 | 4 |
| 5 | | 386 B | 7 | 233 | 2.5 | 1 210 E | 123 S | 12 900 | 12.5 | 708 | 155 S | 8 490 | 5 |
| 6 | | 369 B | 8 | 255 | 3.5 | 1 180 A | 114 S | 11 400 | 14.0 | 661 | 148 S | 8 450 | 6 |
| 7 | | 362 B | 7 | 219 | 3.0 | 1 110 | 110 S | 11 100 | | 635 | 132 | 7 240 | 7 |
| 8 | 0.5 | 366 B | 7 S | 221 | 3.0 | 1 080 | 112 S | 10 500 | 15.5 | 644 | 113 S | 6 280 | 8 |
| 9 | | 379 B | 6 | 196 | 3.0 | 1 040 | 103 S | 9 280 | 15.5 | 676 | 105 S | 6 130 | 9 |
| 10 | | 387 B | 6 | 274 | | 1 030 | 104 | 9 280 | 15.5 | 683 | 109 S | 6 430 | 10 |
| 11 | | 408 B | 8 | 283 | 3.5 | 1 070 | 132 S | 12 200 | 14.0 | 699 | 103 S | 6 220 | 11 |
| 12 | | 402 B | 7 | 243 | 2.0 | 1 020 A | 221 S | 19 500 | | 702 | 86 | 5 230 | 12 |
| 13 | | 380 B | 8 | 303 | | 992 E | 171 | 14 700 | 14.5 | 689 | 85 S | 5 130 | 13 |
| 14 | 0.5 | 401 B | 8 S | 277 | 3.5 | 1 020 E | 105 S | 9 250 | | 683 | 106 | 6 070 | 14 |
| 15 | | 433 B | 8 | 298 | 4.5 | 989 E | 101 S | 8 630 | 17.5 | 677 | 132 S | 7 720 | 15 |
| 16 | | 458 B | 8 | 315 | 5.0 | 970 E | 84 S | 7 040 | 16.0 | 711 | 137 S | 8 420 | 16 |
| 17 | | 485 B | 10 | 402 | 5.5 | 980 E | 76 S | 8 240 | 17.0 | 708 | 184 S | 10 000 | 17 |
| 18 | | 486 B | 11 | 445 | 7.0 | 947 E | 74 S | 8 050 | | 708 | 155 | 8 450 | 18 |
| 19 | | 471 B | 12 | 488 | | 942 E | 75 | 8 100 | 18.5 | 715 | 111 S | 6 870 | 19 |
| 20 | | 480 B | 13 | 539 | 8.0 | 931 E | 78 S | 8 290 | 19.5 | 684 | 96 S | 5 780 | 20 |
| 21 | 0.5 | 500 B | 13 S | 562 | 7.0 | 936 E | 81 S | 8 490 | 19.5 | 648 | 111 S | 6 210 | 21 |
| 22 | | 531 B | 13 | 561 | 8.0 | 898 E | 86 S | 7 200 | 20.5 | 635 | 116 S | 6 470 | 22 |
| 23 | | 582 B | 12 | 603 | 8.5 | 836 E | 114 S | 8 130 | 20.5 | 669 | 105 S | 6 300 | 23 |
| 24 | | 647 B | 13 | 671 | 9.0 | 864 E | 93 S | 7 100 | 20.0 | 661 | 89 S | 5 850 | 24 |
| 25 | 0.5 | 717 B | 13 S | 805 | | 836 E | 84 | 8 010 | | 641 | 93 | 5 150 | 25 |
| 26 | | 787 B | 28 | 1 930 | | 803 A | 83 | 5 760 | 20.0 | 654 | 97 S | 5 480 | 26 |
| 27 | | 808 B | 85 | 5 100 | 12.5 | 837 | 83 S | 8 000 | 19.5 | 648 | 132 S | 7 370 | 27 |
| 28 | | 978 B | 130 | 10 200 | 13.0 | 848 | 113 S | 8 280 | 18.5 | 578 | 150 S | 7 480 | 28 |
| 29 | 1.0 | 1 010 B | 174 S | 15 200 | | 818 | 113 | 8 000 | 19.5 | 580 | 127 S | 6 140 | 29 |
| 30 | | 1 210 B | 216 | 22 600 | 14.0 | 774 | 103 S | 6 890 | | 580 | 110 | 5 320 | 30 |
| 31 | | | | | | 738 | 99 | 6 310 | | | | | 31 |
| TOTAL | | 18 048 | | 84 138 | | 31 423 | | 322 280 | | 20 116 | | 205 300 | TOTAL |
| MEAN | | 835 | | 2 140 | | 1 010 | | 10 400 | | 671 | | 1 840 | MEAN |

MANITOBA

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 21.5 | 588 | 191 S | 4 940 | 22.0 | 588 | 86 S | 5 110 | | 359 | 35 | 1 090 | 1 |
| 2 | | 585 | 109 | 5 510 | 23.5 | 845 | 83 S | 3 510 | 23.0 | 386 | 46 S | 1 830 | 2 |
| 3 | | 586 | 126 | 6 380 | 25.5 | 827 | 83 S | 3 410 | | 377 | 45 | 1 470 | 3 |
| 4 | 18.5 | 586 | 146 S | 7 850 | 25.5 | 824 | 86 S | 3 870 | 22.0 | 341 | 40 S | 1 180 | 4 |
| 5 | 19.0 | 811 | 140 S | 7 390 | 26.5 | 835 | 86 S | 3 870 | | 383 | 50 | 1 700 | 5 |
| 6 | 19.5 | 800 | 143 S | 7 410 | 26.0 | 852 | 78 S | 4 280 | 18.0 | 401 | 84 S | 2 230 | 6 |
| 7 | | 841 | 142 | 7 880 | 25.0 | 875 | 86 S | 5 020 | | 401 | 71 | 2 480 | 7 |
| 8 | | 702 | 138 | 8 250 | 24.5 | 873 | 83 S | 4 830 | 17.5 | 384 | 74 S | 2 330 | 8 |
| 9 | 21.0 | 725 | 128 S | 8 080 | 24.0 | 845 | 102 S | 5 880 | | 348 | 81 | 2 440 | 9 |
| 10 | | 735 | 128 | 8 130 | 23.0 | 888 | 107 S | 5 440 | | 378 | 90 | 2 820 | 10 |
| 11 | 20.5 | 758 | 131 S | 8 590 | | 538 | 100 | 5 080 | 15.0 | 383 | 88 S | 3 240 | 11 |
| 12 | 21.0 | 758 | 151 S | 8 880 | 23.0 | 571 | 92 S | 4 540 | | 378 | 84 | 3 080 | 12 |
| 13 | | 750 | 183 | 10 800 | 23.0 | 534 | 77 S | 3 550 | 14.0 | 383 | 88 S | 2 780 | 13 |
| 14 | | 734 | 150 | 9 510 | 22.5 | 515 | 87 S | 3 880 | | 371 | 85 | 2 720 | 14 |
| 15 | | 794 | 142 | 9 740 | 22.0 | 488 | 85 S | 2 780 | 16.5 | 385 | 82 S | 2 800 | 15 |
| 16 | 22.0 | 833 | 134 S | 9 840 | 21.0 | 463 | 87 S | 2 880 | | 418 | 78 | 2 880 | 16 |
| 17 | | 854 | 125 | 9 220 | 21.5 | 450 | 78 S | 3 070 | 13.5 | 440 | 78 S | 2 880 | 17 |
| 18 | 21.5 | 842 | 119 S | 8 880 | 20.5 | 432 | 108 S | 3 980 | | 401 | 82 | 2 840 | 18 |
| 19 | 21.0 | 885 | 113 S | 8 850 | | 403 | 126 | 4 380 | 11.5 | 383 | 87 S | 3 210 | 19 |
| 20 | | 903 | 118 | 9 210 | 19.5 | 381 | 101 S | 3 410 | | 414 | 131 | 4 880 | 20 |
| 21 | | 913 | 123 | 9 700 | | 383 | 80 | 2 720 | 8.5 | 440 | 168 S | 6 350 | 21 |
| 22 | | 810 | 126 | 10 100 | 18.5 | 373 | 88 S | 2 180 | | 441 | 201 | 7 880 | 22 |
| 23 | 22.5 | 905 | 132 S | 10 300 | 17.5 | 374 | 87 S | 2 810 | 7.5 | 424 | 211 S | 7 730 | 23 |
| 24 | | 894 | 124 | 9 880 | 18.0 | 383 | 85 S | 2 070 | | 387 | 180 | 8 520 | 24 |
| 25 | | 887 | 113 | 8 880 | 18.5 | 371 | 86 S | 2 120 | 8.8 | 410 | 187 S | 5 880 | 25 |
| 26 | 23.0 | 880 | 104 S | 8 000 | 20.0 | 381 | 78 S | 2 340 | | 417 | 130 | 4 880 | 26 |
| 27 | | 873 | 103 | 7 770 | 21.5 | 389 | 88 S | 1 740 | 11.0 | 431 | 114 S | 4 250 | 27 |
| 28 | 22.5 | 826 | 101 S | 7 210 | 21.5 | 384 | 48 S | 1 540 | | 418 | 107 | 3 850 | 28 |
| 29 | 21.5 | 810 | 92 S | 8 440 | 22.0 | 389 | 47 S | 1 800 | 12.0 | 417 | 109 S | 3 930 | 29 |
| 30 | 21.0 | 783 | 86 S | 5 850 | 23.5 | 379 | 46 S | 1 470 | | 408 | 120 | 4 230 | 30 |
| 31 | 21.5 | 738 | 92 S | 5 870 | 23.0 | 378 | 35 S | 1 140 | | | | | 31 |
| TOTAL | | 23 889 | | 254 880 | | 15 362 | | 102 870 | | 11 895 | | 105 230 | TOTAL |
| MEAN | | 771 | | 8 220 | | 496 | | 3 310 | | 397 | | 3 510 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 9.0 | 415 | 134 S | 4 800 | | 413 | 59 | 2 110 | | 316 B | 11 | 302 | 1 |
| 2 | | 419 | 124 | 4 480 | 3.0 | 423 | 41 S | 1 500 | 1.0 | 307 B | 8 S | 212 | 2 |
| 3 | 7.0 | 431 | 111 S | 4 130 | | 448 | 48 | 1 780 | | 298 B | 8 | 205 | 3 |
| 4 | | 448 | 105 | 4 110 | 3.5 | 438 | 85 S | 2 080 | | 285 B | 7 | 172 | 4 |
| 5 | 7.0 | 442 | 101 S | 3 880 | | 438 | 78 | 2 480 | | 275 B | 6 | 143 | 5 |
| 6 | | 439 | 100 | 3 780 | 3.0 | 413 | 97 S | 3 480 | | 265 B | 6 | 137 | 6 |
| 7 | 7.5 | 448 | 100 S | 3 850 | | 482 | 114 | 4 550 | | 261 B | 6 | 135 | 7 |
| 8 | | 439 | 95 | 3 640 | 3.0 | 494 | 134 S | 5 730 | 0.5 | 260 B | 6 S | 135 | 8 |
| 9 | | 437 | 84 | 3 550 | | 473 | 150 | 6 130 | | 261 B | 6 | 135 | 9 |
| 10 | 8.5 | 414 | 95 S | 3 400 | | 463 | 155 | 6 200 | | 260 B | 6 | 135 | 10 |
| 11 | | 433 | 121 | 4 530 | 1.0 | 465 | 144 S | 5 800 | | 260 B | 6 | 135 | 11 |
| 12 | 7.0 | 445 | 148 S | 5 700 | | 428 | 137 | 4 700 | | 257 B | 7 | 155 | 12 |
| 13 | | 454 | 148 | 5 730 | | 414 | 107 | 3 830 | | 253 B | 7 | 153 | 13 |
| 14 | | 448 | 135 | 5 230 | | 418 | 81 | 3 270 | | 249 B | 7 | 151 | 14 |
| 15 | 8.0 | 468 | 124 S | 5 230 | | 415 B | 74 | 2 880 | | 245 B | 7 | 148 | 15 |
| 16 | | 483 | 108 | 4 610 | | 415 B | 57 | 2 040 | | 264 B | 7 | 154 | 16 |
| 17 | 8.5 | 439 | 84 S | 3 570 | 1.0 | 414 B | 41 S | 1 470 | | 264 B | 8 | 182 | 17 |
| 18 | | 453 | 108 | 4 230 | | 414 B | 39 | 1 400 | | 270 B | 8 | 210 | 18 |
| 19 | 3.5 | 467 | 132 S | 5 210 | | 413 B | 41 | 1 480 | 0.5 | 278 B | 8 S | 218 | 19 |
| 20 | | 439 | 124 | 4 700 | | 412 B | 43 | 1 530 | | 284 B | 8 | 198 | 20 |
| 21 | 3.0 | 430 | 107 S | 3 880 | | 408 B | 44 | 1 550 | | 289 B | 7 | 175 | 21 |
| 22 | | 430 | 98 | 3 640 | | 404 B | 44 | 1 540 | | 286 B | 10 | 288 | 22 |
| 23 | 4.5 | 432 | 85 S | 3 680 | 1.0 | 400 B | 46 S | 1 590 | | 301 B | 11 | 288 | 23 |
| 24 | | 424 | 97 | 3 550 | | 398 B | 41 | 1 400 | | 295 B | 11 | 284 | 24 |
| 25 | 5.0 | 414 | 88 S | 3 640 | | 392 B | 36 | 1 320 | | 286 B | 11 | 281 | 25 |
| 26 | | 411 | 102 | 3 630 | | 378 B | 33 | 1 080 | | 285 B | 12 | 306 | 26 |
| 27 | 5.0 | 433 | 102 S | 3 830 | | 367 B | 27 | 858 | | 286 B | 12 | 309 | 27 |
| 28 | 5.0 | 422 | 83 S | 3 200 | | 365 B | 22 | 678 | | 285 B | 12 | 300 | 28 |
| 29 | | 416 | 82 | 1 870 | | 342 B | 16 | 473 | 0.5 | 278 B | 13 S | 309 | 29 |
| 30 | | 414 | 86 | 3 000 | | 330 B | 12 | 342 | | 283 B | 12 | 295 | 30 |
| 31 | 4.0 | 412 | 70 S | 2 490 | | | | | | 281 B | 13 | 293 | 31 |
| TOTAL | | 13 505 | | 122 830 | | 12 445 | | 75 288 | | 8 865 | | 8 506 | TOTAL |
| MEAN | | 436 | | 3 960 | | 415 | | 2 510 | | 278 | | 310 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 78 | |
| MAXIMUM DAILY | 221 | ON MAY 12 |
| MINIMUM DAILY | 6 | ON APR 02 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 3 640 | |
| MAXIMUM DAILY | 27 400 | ON MAY 01 |
| MINIMUM DAILY | 138 | ON DEC 07 |

TOTAL SUSPENDED SEDIMENT LOAD 1 326 898

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 50 30 N
LONG 101 11 10 W
DRAINAGE AREA 347 000 $km^2$
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.10 B | 22 | 3.88 | | 2.27 B | 8 | 1.57 | | 2.28 B | 10 | 1.95 | 1 |
| 2 | | 1.86 B | 21 | 3.56 | | 2.57 B | 9 | 2.00 | | 2.60 B | 13 | 2.92 | 2 |
| 3 | | 1.98 B | 21 | 3.59 | | 2.76 B | 9 | 2.15 | 0.5 | 3.89 B | 16 S | 5.38 | 3 |
| 4 | | 2.14 B | 20 | 3.70 | | 2.29 B | 10 | 1.98 | | 9.33 B | 31 | 25.0 | 4 |
| 5 | | 1.83 B | 19 | 3.17 | | 2.24 B | 10 | 1.94 | | 8.39 B | 28 | 18.8 | 5 |
| 6 | | 1.70 B | 19 | 2.78 | | 2.58 B | 10 | 2.23 | | 7.76 B | 22 | 14.8 | 6 |
| 7 | | 1.65 B | 18 | 2.57 | | 2.87 B | 10 | 2.48 | | 3.39 B | 14 | 4.10 | 7 |
| 8 | | 1.62 B | 18 | 2.52 | | 3.01 B | 10 | 2.60 | | 4.45 B | 14 | 5.39 | 8 |
| 9 | | 1.63 B | 17 | 2.35 | | 2.84 B | 10 | 2.57 | | 9.89 B | 26 | 22.4 | 9 |
| 10 | | 1.62 B | 18 | 2.36 | | 2.57 B | 10 | 2.22 | | 10.2 B | 28 | 25.8 | 10 |
| 11 | | 1.45 B | 17 | 2.13 | | 2.37 B | 10 | 2.05 | | 7.66 B | 25 | 18.5 | 11 |
| 12 | | 1.36 B | 17 | 2.44 | | 2.30 B | 10 | 1.99 | | 7.87 B | 23 | 18.2 | 12 |
| 13 | | 1.67 B | 18 | 2.31 | | 2.41 B | 10 | 2.08 | | 6.16 B | 21 | 14.4 | 13 |
| 14 | | 1.80 B | 18 | 2.07 | | 2.76 B | 11 | 2.62 | | 6.51 B | 20 | 14.7 | 14 |
| 15 | | 1.61 B | 18 | 2.23 | | 3.07 B | 12 | 3.18 | | 6.96 B | 18 | 9.62 | 15 |
| 16 | | 1.70 B | 15 | 2.20 | | 3.12 B | 11 | 2.97 | | 5.68 B | 12 | 5.10 | 16 |
| 17 | | 1.90 B | 14 | 2.30 | | 2.62 B | 10 | 2.26 | | 4.96 B | 9 | 3.86 | 17 |
| 18 | | 2.09 B | 14 | 2.53 | | 2.58 B | 9 | 2.01 | | 4.89 B | 9 | 3.80 | 18 |
| 19 | | 1.80 B | 13 | 2.02 | | 3.26 B | 9 | 1.76 | | 5.18 B | 9 | 4.03 | 19 |
| 20 | | 1.67 B | 13 | 1.88 | | 2.20 B | 9 | 1.71 | | 4.99 B | 9 | 3.88 | 20 |
| 21 | | 1.59 B | 13 | 1.78 | | 2.10 B | 9 | 1.63 | | 8.98 B | 10 | 8.03 | 21 |
| 22 | | 1.51 B | 11 | 1.44 | | 1.96 B | 9 | 1.52 | | 8.49 B | 11 | 8.02 | 22 |
| 23 | | 1.51 B | 10 | 1.30 | | 1.86 B | 9 | 1.45 | 0.1 | 14.5 B | 15 S | 18.8 | 23 |
| 24 | | 1.64 B | 9 | 1.28 | | 1.84 B | 9 | 1.43 | | 16.2 B | 25 | 35.3 | 24 |
| 25 | | 1.83 B | 8 | 1.28 | | 1.89 B | 10 | 1.83 | | 23.1 B | 36 | 71.9 | 25 |
| 26 | 0.5 | 2.10 B | 8 S | 1.45 | | 1.96 B | 9 | 1.82 | | 25.3 B | 48 | 101 | 26 |
| 27 | | 2.12 B | 8 | 1.47 | | 2.02 B | 9 | 1.57 | | 28.3 B | 55 | 134 | 27 |
| 28 | | 2.04 B | 8 | 1.41 | | 2.11 B | 9 | 1.84 | | 30.7 B | 66 | 175 | 28 |
| 29 | | 2.03 B | 8 | 1.40 | | | | | | 33.6 B | 77 | 223 | 29 |
| 30 | | 2.15 B | 8 | 1.49 | | | | | | 36.5 B | 102 | 322 | 30 |
| 31 | | 2.18 B | 8 | 1.51 | | | | | | 72.5 B | 188 | 1 180 | 31 |
| TOTAL | | 55.98 | | 86.41 | | 67.57 | | 56.76 | | 426.20 | | 2 498.88 | TOTAL |
| MEAN | | 1.81 | | 2.21 | | 3.41 | | 2.03 | | 13.7 | | 80.6 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 81.7 B | 209 | 1 480 | 10.0 | 83.6 | 83 S | 600 | 18.0 | 28.7 | 22 S | 56.5 | 1 |
| 2 | | 110 B | 260 | 2 470 | 9.5 | 83.2 | 81 S | 582 | 17.0 | 27.0 | 17 S | 38.7 | 2 |
| 3 | | 115 B | 276 | 2 780 | 9.0 | 82.8 | 84 S | 601 | 15.0 | 25.1 | 17 S | 36.9 | 3 |
| 4 | 1.0 | 100 B | 229 S | 1 980 | 12.0 | 82.4 | 76 S | 555 | 15.0 | 23.8 | 16 S | 32.5 | 4 |
| 5 | 1.0 | 107 B | 255 S | 2 380 | 13.0 | 81.9 | 86 S | 481 | 19.0 | 20.5 | 13 S | 23.0 | 5 |
| 6 | 1.0 | 97.8 B | 300 S | 2 640 | 13.0 | 80.5 | 70 S | 487 | 18.5 | 18.0 | 11 S | 15.2 | 6 |
| 7 | 0.5 | 108 B | 369 S | 3 380 | 13.0 | 78.6 | 86 S | 441 | 19.0 | 12.1 | 12 S | 12.5 | 7 |
| 8 | 1.0 | 118 B | 461 S | 4 950 | 13.5 | 76.6 | 85 S | 430 | 19.0 | 9.61 | 13 S | 10.8 | 8 |
| 9 | 1.5 | 121 B | 375 S | 3 920 | 14.0 | 78.1 | 84 S | 447 | 20.0 | 8.21 | 10 S | 7.08 | 9 |
| 10 | 1.5 | 121 B | 383 S | 4 000 | 15.0 | 78.3 | 70 S | 455 | 21.5 | 7.14 | 10 S | 6.17 | 10 |
| 11 | | 111 B | 341 | 3 270 | 12.0 | 76.2 | 87 S | 430 | 24.0 | 6.17 | 10 S | 5.33 | 11 |
| 12 | | 98.1 | 228 | 1 950 | | 75.6 | 88 | 444 | | 6.18 | 10 | 5.34 | 12 |
| 13 | 1.0 | 88.3 | 214 S | 1 630 | 2.0 | 75.2 | 86 S | 429 | 21.0 | 7.08 | 10 S | 6.12 | 13 |
| 14 | 4.0 | 95.4 | 181 S | 1 480 | 7.0 | 73.3 | 57 S | 361 | 20.0 | 6.54 | 11 S | 6.12 | 14 |
| 15 | 2.0 | 92.0 | 183 S | 1 290 | 8.0 | 73.3 | 59 S | 374 | - | 9.86 | 12 | 10.0 | 15 |
| 16 | 3.0 | 90.0 | 143 S | 1 110 | 9.0 | 71.2 | 58 S | 344 | 18.0 | 10.4 | 13 S | 11.7 | 16 |
| 17 | 3.0 | 86.5 | 130 S | 994 | 11.0 | 69.0 | 58 S | 346 | | 10.4 | 14 | 12.8 | 17 |
| 18 | 4.0 | 87.7 | 121 S | 917 | 12.0 | 67.7 | 50 S | 292 | | 9.77 | 14 | 12.7 | 18 |
| 19 | 4.0 | 87.4 | 117 S | 884 | 11.5 | 67.5 | 43 S | 251 | 21.0 | 9.06 | 15 S | 11.8 | 19 |
| 20 | 8.0 | 87.5 | 116 S | 877 | 13.0 | 66.2 | 44 S | 252 | | 8.79 | 15 | 11.4 | 20 |
| 21 | 8.5 | 88.1 | 113 S | 880 | 14.0 | 64.7 | 42 S | 235 | 21.5 | 8.89 | 15 S | 11.7 | 21 |
| 22 | 10.5 | 88.0 | 108 S | 828 | 15.0 | 62.9 | 40 S | 217 | 23.0 | 9.84 | 16 | 13.8 | 22 |
| 23 | 11.0 | 87.8 | 111 S | 842 | 16.0 | 60.3 | 41 S | 214 | | 10.0 | 16 S | 13.8 | 23 |
| 24 | 13.0 | 87.3 | 113 S | 852 | 15.0 | 57.6 | 36 S | 178 | | 9.29 | 16 | 12.8 | 24 |
| 25 | 14.0 | 86.7 | 113 S | 838 | 17.0 | 54.9 | 33 S | 157 | | 8.32 | 16 | 11.5 | 25 |
| 26 | 11.5 | 85.6 | 109 S | 808 | 18.0 | 52.4 | 29 S | 131 | | 7.88 | 15 | 10.8 | 26 |
| 27 | 10.0 | 84.9 | 104 S | 783 | 18.0 | 49.9 | 27 S | 116 | | 7.50 | 16 | 10.4 | 27 |
| 28 | 8.0 | 84.6 | 88 S | 718 | 18.0 | 46.7 | 30 S | 121 | 22.0 | 7.81 | 17 S | 11.2 | 28 |
| 29 | 8.0 | 84.6 | 93 S | 680 | 18.0 | 43.1 | 27 S | 101 | | 7.66 | 17 | 11.3 | 29 |
| 30 | 8.0 | 84.0 | 88 S | 639 | 14.0 | 38.8 | 25 S | 83.6 | | 7.75 | 16 | 10.7 | 30 |
| 31 | | | | | 17.0 | 34.1 | 25 S | 76.8 | | | | | 31 |
| TOTAL | | 2 877.5 | | 52 202 | | 2 078.5 | | 10 233.4 | | 349.68 | | 453.17 | TOTAL |
| MEAN | | 95.9 | | 1 740 | | 67.1 | | 330 | | 11.7 | | 15.1 | MEAN |

MANITOBA

SOURIS RIVER AT WAWANESA - STATION NO. 05NB001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 7.38 | 18 | 10.2 | 25.0 | 5.43 | 10 S | 5.86 | | 6.40 | 14 | 7.74 | 1 |
| 2 | | 7.20 | 14 | 8.71 | | 5.28 | 10 | 5.43 | | 5.47 | 13 | 7.27 | 2 |
| 3 | | 7.47 | 14 | 9.04 | | 5.28 | 11 | 5.97 | | 5.87 | 12 | 8.09 | 3 |
| 4 | 20.0 | 7.49 | 12 S | 7.77 | 25.0 | 5.02 | 12 S | 6.14 | | 5.88 | 12 | 8.88 | 4 |
| 5 | | 7.32 | 11 | 8.98 | | 6.48 | 13 | 7.28 | | 5.81 | 12 | 8.82 | 5 |
| 6 | | 7.18 | 10 | 8.20 | | 5.83 | 12 | 6.04 | | 5.92 | 12 | 8.14 | 6 |
| 7 | 27.0 | 6.86 | 8 S | 6.74 | | 5.28 | 12 | 6.47 | 15.0 | 7.13 | 14 S | 8.82 | 7 |
| 8 | | 6.45 | 7 | 3.80 | 25.0 | 4.83 | 11 S | 4.89 | | 8.19 | 15 | 11.3 | 8 |
| 9 | | 6.47 | 9 | 5.03 | | 4.70 | 10 | 4.08 | | 8.83 | 17 | 13.1 | 9 |
| 10 | | 6.29 | 11 | 5.98 | | 4.49 | 10 | 3.88 | | 9.22 | 17 | 13.6 | 10 |
| 11 | 23.0 | 6.69 | 11 S | 5.80 | | 4.36 | 10 | 3.76 | 14.0 | 11.8 | 19 S | 19.0 | 11 |
| 12 | | 6.86 | 10 | 5.05 | | 4.21 | 10 | 3.84 | | 14.6 | 23 | 29.0 | 12 |
| 13 | | 6.57 | 9 | 4.33 | | 4.07 | 11 | 3.87 | | 16.5 | 28 | 35.8 | 13 |
| 14 | 27.0 | 6.63 | 9 S | 4.38 | 24.0 | 4.04 | 11 S | 3.84 | | 17.7 | 28 | 42.6 | 14 |
| 15 | | 6.61 | 10 | 4.76 | 24.0 | 3.98 | 11 S | 3.78 | | 20.0 | 34 | 58.6 | 15 |
| 16 | | 7.34 | 13 | 8.24 | | 4.02 | 11 | 3.82 | | 20.0 | 34 | 58.6 | 16 |
| 17 | | 8.15 | 10 | 8.31 | | 3.98 | 11 | 3.78 | | 18.6 | 32 | 53.9 | 17 |
| 18 | 28.0 | 8.44 | 8 S | 5.78 | | 3.98 | 11 | 3.78 | | 17.6 | 28 | 44.6 | 18 |
| 19 | | 8.24 | 8 | 5.62 | | 3.94 | 11 | 3.74 | | 15.4 | 26 | 34.5 | 19 |
| 20 | | 8.22 | 8 | 5.61 | | 4.08 | 11 | 3.88 | | 13.4 | 23 | 26.8 | 20 |
| 21 | | 8.06 | 8 | 5.50 | | 4.85 | 13 | 5.11 | | 11.8 | 21 | 21.8 | 21 |
| 22 | | 4.94 | 7 | 2.98 | | 5.30 | 15 | 6.87 | | 10.7 | 19 | 17.8 | 22 |
| 23 | | 4.85 | 7 | 2.81 | | 5.38 | 15 | 6.87 | | 10.1 | 19 | 16.8 | 23 |
| 24 | | 4.76 | 7 | 2.88 | 21.0 | 5.26 | 14 S | 6.38 | | 9.81 | 18 | 15.3 | 24 |
| 25 | | 5.00 | 8 | 3.46 | | 4.21 | 12 | 4.36 | | 10.0 | 18 | 15.8 | 25 |
| 26 | | 5.33 | 8 | 3.88 | | 2.92 | 8 | 2.27 | | 10.8 | 19 | 17.7 | 26 |
| 27 | | 5.62 | 8 | 4.37 | | 4.84 | 11 | 4.84 | | 11.8 | 21 | 21.4 | 27 |
| 28 | 28.0 | 5.79 | 8 S | 4.60 | 25.0 | 5.38 | 13 S | 5.98 | | 12.6 | 22 | 24.0 | 28 |
| 29 | | 5.83 | 8 | 4.63 | | 5.86 | 12 | 5.86 | | 12.8 | 23 | 25.4 | 29 |
| 30 | | 5.86 | 8 | 5.12 | | 5.80 | 12 | 6.01 | | 13.5 | 28 | 32.7 | 30 |
| 31 | 25.0 | 6.74 | 8 S | 5.24 | | 5.95 | 12 | 6.21 | | | | | 31 |
| TOTAL | | 188.26 | | 160.27 | | 152.59 | | 152.86 | | 349.80 | | 897.04 | TOTAL |
| MEAN | | 6.07 | | 5.17 | | 4.92 | | 4.93 | | 11.7 | | 23.2 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 13.9 | 31 | 37.2 | | 11.2 | 24 | 23.2 | | 2.38 B | 57 | 11.7 | 1 |
| 2 | | 13.0 | 30 | 33.7 | | 12.3 | 26 | 28.6 | | 2.28 B | 57 | 11.1 | 2 |
| 3 | 8.0 | 12.1 | 28 S | 29.3 | | 13.8 | 34 | 40.5 | | 2.08 B | 56 | 10.1 | 3 |
| 4 | | 11.3 | 25 | 24.4 | | 13.6 | 35 | 42.9 | | 1.87 B | 55 | 8.69 | 4 |
| 5 | | 10.5 | 21 | 18.1 | | 12.3 | 36 | 37.8 | | 1.68 B | 55 | 7.84 | 5 |
| 6 | 9.0 | 10.0 | 17 S | 14.7 | | 10.3 | 37 | 32.8 | 0.5 | 1.56 B | 55 S | 7.41 | 6 |
| 7 | | 9.47 | 16 | 13.3 | | 8.70 | 36 | 26.8 | | 1.57 B | 55 | 7.49 | 7 |
| 8 | | 8.63 | 14 | 10.4 | | 8.02 | 36 | 24.3 | | 1.58 B | 54 | 7.28 | 8 |
| 9 | 10.0 | 7.77 | 13 S | 8.73 | | 7.48 | 36 | 23.2 | | 1.60 B | 54 | 7.48 | 9 |
| 10 | | 8.56 | 13 | 7.38 | | 6.63 | 40 | 23.8 | | 1.67 B | 53 | 7.65 | 10 |
| 11 | | 8.58 | 12 | 8.60 | | 8.58 | 40 | 19.2 | | 1.62 B | 53 | 7.42 | 11 |
| 12 | 7.0 | 4.97 | 11 S | 4.72 | | 4.04 | 40 | 17.1 | | 1.61 B | 52 | 7.33 | 12 |
| 13 | | 4.76 | 12 | 4.82 | | 4.56 | 40 | 15.7 | | 1.48 B | 52 | 6.68 | 13 |
| 14 | | 4.72 | 12 | 4.89 | | 4.31 | 40 | 14.9 | | 1.38 B | 51 | 6.13 | 14 |
| 15 | | 4.60 | 12 | 4.77 | | 4.63 | 40 | 16.0 | | 1.35 B | 50 | 5.83 | 15 |
| 16 | | 4.24 | 12 | 4.40 | | 4.52 | 41 | 16.0 | | 1.30 B | 50 | 5.62 | 16 |
| 17 | | 3.87 | 11 | 3.77 | | 4.04 | 41 | 14.3 | | 1.25 B | 50 | 5.40 | 17 |
| 18 | | 3.28 | 10 | 2.84 | | 3.98 | 42 | 14.5 | | 1.18 B | 48 | 4.84 | 18 |
| 19 | | 3.98 | 9 | 2.38 | | 4.89 | 45 | 18.5 | | 1.14 B | 48 | 4.63 | 19 |
| 20 | | 2.90 | 9 | 2.25 | | 9.37 | 62 | 34.1 | | 1.06 B | 48 | 4.31 | 20 |
| 21 | | 2.80 | 9 | 2.26 | | 9.75 | 58 | 37.8 | | 0.931 B | 48 | 3.82 | 21 |
| 22 | | 2.84 | 9 | 2.34 | | 9.06 B | 59 | 35.7 | | 0.785 B | 48 | 3.09 | 22 |
| 23 | | 2.78 | 9 | 2.15 | | 3.88 B | 59 | 19.7 | | 0.710 B | 48 | 2.81 | 23 |
| 24 | | 2.98 | 8 | 1.77 | | 4.88 B | 59 | 24.8 | | 0.685 B | 48 | 2.77 | 24 |
| 25 | | 2.32 | 8 | 1.80 | | 3.41 B | 59 | 17.4 | | 0.609 B | 48 | 2.37 | 25 |
| 26 | | 2.15 | 7 | 1.30 | | 2.81 B | 58 | 14.1 | | 0.598 B | 41 | 2.11 | 26 |
| 27 | | 3.83 | 10 | 3.31 | | 2.78 B | 58 | 13.6 | | 0.613 B | 40 | 2.12 | 27 |
| 28 | | 5.44 | 13 | 6.11 | | 2.83 B | 58 | 13.2 | | 0.614 B | 40 | 2.12 | 28 |
| 29 | 5.0 | 9.14 | 18 S | 15.0 | | 2.17 B | 58 | 10.9 | | 0.618 B | 41 | 2.18 | 29 |
| 30 | | 8.87 | 21 | 17.9 | | 2.37 B | 57 | 11.7 | | 0.618 B | 43 | 2.30 | 30 |
| 31 | 5.0 | 10.8 | 22 S | 20.1 | | | | | | 0.620 B | 41 | 2.20 | 31 |
| TOTAL | | 188.66 | | 311.62 | | 186.81 | | 553.4 | | 38.857 | | 172.84 | TOTAL |
| MEAN | | 6.44 | | 10.1 | | 6.22 | | 22.0 | | 1.26 | | 5.57 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 97 986.24 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 113 | |
| MAXIMUM DAILY | 481 | ON APR 08 |
| MINIMUM DAILY | 7 | ON JUL 08 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 185 | |
| MAXIMUM DAILY | 4 950 | ON APR 08 |
| MINIMUM DAILY | 1.30 | ON JAN 25 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 05 N
LONG 99 40 35 W
DRAINAGE AREA 80 300 km²
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 04 | 18:45 | 100 M | 1.0 | 412 K | 8 | 14 | 25 | 40 | 51 | 85 | 81 | 93 | 98 | 99 | 100 | BNW |
| APR 07 | 18:25 | 105 M | 1.0 | 984 K | 5 | 9 | 17 | 25 | 39 | 53 | 70 | 87 | 95 | 99 | 100 | BNW |
| APR 09 | 18:30 | 121 M | 1.5 | 433 K | 15 | 22 | 36 | 52 | 62 | 86 | 73 | 86 | 94 | 96 | 100 | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MANITOBA

SOURIS RIVER NEAR COULTER - STATION NO. 05NP019

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.69 B | 99 | 14.5 | | 1.90 B | 48 | 8.35 | 0.1 | 5.76 B | 40 S | 20.0 | 1 |
| 2 | | 1.66 B | 95 | 13.8 | | 1.87 B | 48 | 8.64 | | 5.60 B | 37 | 18.5 | 2 |
| 3 | | 1.66 B | 82 | 13.4 | | 1.86 B | 48 | 8.60 | | 5.67 B | 31 | 15.7 | 3 |
| 4 | | 1.72 B | 87 | 12.9 | | 1.69 B | 48 | 8.72 | | 5.89 B | 28 | 14.5 | 4 |
| 5 | | 1.71 B | 83 | 12.3 | | 1.75 B | 48 | 8.86 | | 5.31 B | 30 | 18.4 | 5 |
| 6 | | 1.73 B | 81 | 12.1 | | 1.77 B | 48 | 7.03 | | 6.12 B | 38 | 28.7 | 6 |
| 7 | | 1.72 B | 78 | 11.7 | | 1.81 B | 48 | 7.58 | | 6.30 B | 37 | 28.5 | 7 |
| 8 | | 1.70 B | 78 | 11.8 | | 1.86 B | 48 | 7.67 | | 6.01 B | 32 | 33.1 | 8 |
| 9 | | 1.70 B | 76 | 11.2 | | 2.00 B | 47 | 8.12 | | 7.68 B | 28 | 19.7 | 9 |
| 10 | | 1.68 B | 76 | 10.8 | | 2.02 B | 47 | 8.20 | | 7.91 B | 27 | 13.5 | 10 |
| 11 | | 1.65 B | 73 | 10.4 | | 2.04 B | 48 | 8.45 | | 8.09 B | 25 | 17.5 | 11 |
| 12 | | 1.67 B | 70 | 10.1 | | 1.98 B | 48 | 8.21 | | 8.43 B | 23 | 16.8 | 12 |
| 13 | | 1.71 B | 68 | 10.0 | | 1.92 B | 48 | 7.95 | | 8.69 B | 24 | 18.0 | 13 |
| 14 | | 1.68 B | 67 | 9.78 | | 1.79 B | 48 | 7.42 | | 8.41 B | 25 | 20.3 | 14 |
| 15 | | 1.66 B | 65 | 9.07 | | 1.69 B | 48 | 7.01 | 10.3 B | | 28 | 37.0 | 15 |
| 16 | | 1.66 B | 64 | 8.74 | | 2.26 B | 61 | 8.86 | | 10.0 B | 33 | 54.2 | 16 |
| 17 | | 1.64 B | 61 | 8.12 | | 4.08 B | 59 | 20.7 | | 11.7 B | 37 | 69.4 | 17 |
| 18 | | 1.62 B | 60 | 7.66 | | 4.58 B | 59 | 23.3 | | 26.6 B | 42 | 92.9 | 18 |
| 19 | | 1.58 B | 58 | 7.52 | | 4.09 B | 65 | 22.3 | | 28.8 B | 47 | 116 | 19 |
| 20 | | 1.58 B | 56 | 7.64 | | 4.72 B | 53 | 21.6 | | 30.4 B | 47 | 123 | 20 |
| 21 | | 1.56 B | 55 | 7.41 | | 4.71 B | 50 | 20.3 | | 31.7 B | 46 | 126 | 21 |
| 22 | | 1.55 B | 53 | 7.10 | | 4.78 B | 47 | 19.4 | | 32.6 B | 42 | 118 | 22 |
| 23 | | 1.54 B | 51 | 6.79 | | 4.85 B | 44 | 18.6 | | 33.1 B | 38 | 108 | 23 |
| 24 | | 1.53 B | 50 | 6.61 | | 5.28 B | 41 | 18.7 | | 33.6 B | 34 | 98.7 | 24 |
| 25 | 0.5 | 1.48 B | 49 S | 6.31 | | 5.34 B | 41 | 18.9 | | 34.1 B | 32 | 94.3 | 25 |
| 26 | | 1.47 B | 48 | 6.10 | | 5.41 B | 40 | 18.7 | | 35.6 B | 28 | 89.7 | 26 |
| 27 | | 1.50 B | 48 | 6.22 | | 5.51 B | 40 | 19.0 | | 37.3 B | 24 | 77.3 | 27 |
| 28 | | 1.56 B | 48 | 6.47 | | 5.63 B | 40 | 19.5 | | 38.5 B | 20 | 66.5 | 28 |
| 29 | | 1.57 B | 47 | 6.38 | | | | | | 39.6 B | 18 | 61.5 | 29 |
| 30 | | 1.54 B | 47 | 6.26 | | | | | | 40.7 B | 18 | 63.3 | 30 |
| 31 | | 1.53 B | 47 | 6.21 | | | | | | 44.0 B | 17 | 64.6 | 31 |
| TOTAL | | 49.96 | | 266.00 | | 89.38 | | 382.31 | | 865.09 | | 1 732.7 | TOTAL |
| MEAN | | 1.61 | | 9.23 | | 3.19 | | 12.8 | | 30.8 | | 55.9 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 48.5 B | 15 | 80.3 | 10.0 | 71.9 | 6 S | 37.3 | 16.0 | 19.1 | 24 S | 31.3 | 1 |
| 2 | 0.5 | 48.6 B | 16 S | 87.5 | 12.5 | 71.6 | 6 S | 37.1 | | 7.78 | 20 | 13.4 | 2 |
| 3 | | 50.3 B | 14 | 80.8 | 11.0 | 72.4 | 7 S | 43.6 | | 2.87 | 17 | 3.92 | 3 |
| 4 | 1.0 | 51.6 B | 14 S | 82.7 | 10.0 | 75.5 | 6 S | 38.1 | | 1.90 | 28 | 3.87 | 4 |
| 5 | 1.5 | 54.1 B | 15 S | 70.1 | 11.5 | 74.5 | 5 S | 32.2 | 15.5 | 1.81 | 34 S | 5.32 | 5 |
| 6 | 1.5 | 57.6 B | 15 S | 78.8 | | 70.5 | 5 | 30.5 | | 2.11 | 28 | 5.10 | 6 |
| 7 | 2.5 | 58.1 B | 15 S | 85.7 | 13.0 | 68.5 | 4 S | 23.8 | 18.0 | 2.98 | 16 S | 4.80 | 7 |
| 8 | 3.5 | 70.6 B | 13 S | 78.3 | | 68.3 | 4 | 23.8 | | 3.75 | 14 | 4.54 | 8 |
| 9 | 3.5 | 71.8 | 12 S | 74.4 | 12.0 | 68.2 | 4 S | 23.5 | | 5.49 | 15 | 7.12 | 9 |
| 10 | 3.0 | 71.6 | 11 S | 68.0 | | 66.9 | 4 | 23.1 | 23.0 | 7.04 | 17 S | 10.3 | 10 |
| 11 | 3.0 | 72.1 | 11 S | 68.5 | | 61.6 | 4 | 21.4 | | 8.11 | 13 | 9.11 | 11 |
| 12 | 1.0 | 70.9 | 14 S | 85.8 | | 58.6 A | 8 | 45.7 | 21.0 | 10.2 | 12 S | 10.6 | 12 |
| 13 | 0.5 | 70.1 | 14 S | 84.8 | 5.0 | 56.6 A | 20 S | 97.6 | | 8.80 | 12 | 9.12 | 13 |
| 14 | 0.5 | 71.0 | 14 S | 85.8 | | 56.7 E | 18 | 86.5 | | 7.93 | 12 | 8.22 | 14 |
| 15 | 2.0 | 72.0 | 13 S | 80.9 | 7.0 | 54.7 A | 10 S | 47.3 | 18.5 | 8.89 | 16 S | 9.25 | 15 |
| 16 | 3.0 | 72.5 | 13 S | 81.5 | | 52.9 E | 7 | 32.0 | | 7.39 | 16 | 10.1 | 16 |
| 17 | 1.5 | 73.6 | 13 S | 82.7 | | 51.1 E | 6 | 22.1 | 20.0 | 6.26 | 12 S | 8.58 | 17 |
| 18 | 2.0 | 73.4 | 12 S | 76.1 | 12.0 | 49.2 A | 5 S | 21.3 | | 6.46 | 13 | 9.50 | 18 |
| 19 | 5.0 | 73.2 | 12 S | 75.8 | 12.0 | 46.5 | 6 S | 33.5 | | 6.07 | 17 | 11.8 | 19 |
| 20 | 5.0 | 72.2 | 11 S | 68.8 | | 43.0 | 11 | 41.7 | 22.0 | 8.17 | 16 S | 8.00 | 20 |
| 21 | 5.5 | 70.9 | 10 S | 61.3 | 13.0 | 41.9 | 24 S | 88.9 | | 5.36 | 13 | 8.04 | 21 |
| 22 | 9.5 | 70.3 | 11 S | 66.8 | | 39.8 | 20 | 60.4 | 22.5 | 5.28 | 12 S | 8.52 | 22 |
| 23 | 11.0 | 70.2 | 10 S | 60.7 | | 37.8 | 14 | 45.8 | | 5.84 | 12 | 8.88 | 23 |
| 24 | 13.0 | 70.5 | 9 S | 54.8 | 9.5 | 34.8 | 10 S | 29.8 | | 5.80 | 13 | 7.75 | 24 |
| 25 | 12.5 | 71.4 | 7 S | 43.2 | | 31.9 | 8 | 22.0 | 25.0 | 5.76 | 15 S | 8.76 | 25 |
| 26 | 10.0 | 71.7 | 8 S | 49.6 | 10.0 | 28.6 | 13 S | 32.1 | | 5.13 | 14 | 7.41 | 26 |
| 27 | 8.0 | 71.2 | 7 S | 43.1 | | 25.6 | 14 | 28.5 | 22.5 | 5.84 | 11 S | 8.85 | 27 |
| 28 | 8.5 | 72.0 | 8 S | 37.3 | | 23.6 | 20 | 34.7 | | 5.16 | 11 | 8.67 | 28 |
| 29 | 8.0 | 71.8 | 7 S | 43.5 | | 20.1 | 32 | 32.8 | | 5.31 | 11 | 8.00 | 29 |
| 30 | 11.0 | 72.0 | 8 S | 37.3 | | 19.1 | 36 S | 87.8 | | 5.43 | 11 | 8.11 | 30 |
| 31 | | | | | 13.0 | 18.9 | 31 | 49.8 | | | | | 31 |
| TOTAL | | 2 032.5 | | 1 887.0 | | 1 553.3 | | 1 382.4 | | 183.22 | | 350.82 | TOTAL |
| MEAN | | 67.4 | | 60.8 | | 50.1 | | 46.7 | | 6.44 | | 8.36 | MEAN |

MANITOBA

SOURIS RIVER NEAR COULTER - STATION NO. 05NP018

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22.0 | 5.81 | 11 S | 5.62 | | 5.29 | 14 | 6.40 | | 5.53 | 17 | 8.58 | 1 |
| 2 | | 5.87 | 11 | 5.58 | | 5.45 | 15 | 7.59 | | 5.45 | 25 | 20.6 | 2 |
| 3 | | 5.88 | 13 | 6.62 | | 5.03 | 15 | 6.52 | | 10.5 | 24 | 22.8 | 3 |
| 4 | 18.5 | 5.34 | 15 S | 7.36 | | 4.80 | 14 | 5.83 | | 11.3 | 20 | 19.8 | 4 |
| 5 | | 5.61 | 16 | 7.62 | | 4.39 | 14 | 5.31 | | 11.4 | 18 | 17.7 | 5 |
| 6 | | 5.57 | 15 | 7.70 | | 4.44 | 15 | 5.76 | | 11.8 | 17 | 17.0 | 6 |
| 7 | | 5.54 | 15 | 7.66 | | 4.04 | 15 | 5.34 | | 16.9 | 15 | 23.4 | 7 |
| 8 | | 5.55 | 15 | 7.67 | | 3.50 | 14 | 4.23 | | 18.9 | 15 | 26.1 | 8 |
| 9 | | 5.55 | 15 | 7.68 | 22.5 | 3.57 | 14 S | 4.44 | 11.0 | 18.9 | 15 S | 25.8 | 9 |
| 10 | | 5.72 | 19 | 9.39 | | 3.28 | 14 | 3.94 | | 20.0 | 15 | 25.9 | 10 |
| 11 | | 5.77 | 20 | 9.97 | | 3.15 | 14 | 3.81 | | 20.1 | 15 | 27.8 | 11 |
| 12 | | 5.37 | 19 | 8.62 | | 3.33 | 15 | 4.32 | | 19.9 | 15 | 25.8 | 12 |
| 13 | | 5.31 | 19 | 8.72 | | 3.70 | 17 | 5.43 | | 19.1 | 17 | 26.1 | 13 |
| 14 | | 5.82 | 22 | 10.7 | | 4.12 | 18 | 6.41 | | 14.9 | 28 | 37.3 | 14 |
| 15 | | 5.92 | 22 | 10.5 | | 4.27 | 20 | 7.38 | 10.8 | 11.6 | 31 S | 31.1 | 15 |
| 16 | | 5.82 | 21 | 10.2 | | 5.17 | 24 | 12.8 | | 10.8 | 23 | 21.5 | 16 |
| 17 | | 5.68 | 21 | 10.3 | 23.0 | 5.80 | 22 S | 10.6 | | 9.87 | 24 | 20.7 | 17 |
| 18 | 29.0 | 5.93 | 21 S | 10.8 | | 5.03 | 31 | 9.13 | | 9.70 | 27 | 22.8 | 18 |
| 19 | | 5.27 | 20 | 10.6 | | 4.74 | 31 | 8.80 | | 9.31 | 35 | 28.2 | 19 |
| 20 | | 5.72 | 18 | 10.5 | | 5.61 | 33 | 10.5 | 8.5 | 9.32 | 45 S | 36.2 | 20 |
| 21 | | 5.86 | 18 | 9.82 | | 5.74 | 33 | 11.4 | | 11.3 | 42 | 41.0 | 21 |
| 22 | | 5.87 | 18 | 9.03 | | 6.00 | 34 | 12.4 | | 12.8 | 39 | 43.5 | 22 |
| 23 | | 5.74 | 18 | 8.74 | | 5.30 | 34 | 12.8 | | 13.8 | 32 | 38.2 | 23 |
| 24 | | 5.84 | 18 | 8.88 | | 5.17 | 34 | 12.8 | | 13.8 | 28 | 30.0 | 24 |
| 25 | | 7.22 | 18 | 9.98 | 23.5 | 5.37 | 34 S | 13.2 | | 14.0 | 31 S | 28.4 | 25 |
| 26 | | 7.60 | 18 | 10.5 | | 5.44 | 34 | 13.6 | | 14.1 | 21 | 25.8 | 26 |
| 27 | 25.0 | 7.38 | 18 S | 9.86 | | 5.48 | 34 | 13.4 | | 13.9 | 25 | 30.0 | 27 |
| 28 | | 7.16 | 18 | 8.27 | | 5.32 | 34 | 13.1 | | 12.9 | 28 | 31.2 | 28 |
| 29 | | 6.78 | 18 | 8.78 | 24.0 | 5.21 | 33 S | 12.3 | | 11.9 | 31 | 31.9 | 29 |
| 30 | | 5.93 | 14 | 7.17 | 25.0 | 4.31 | 17 S | 8.27 | | 11.1 | 35 | 33.6 | 30 |
| 31 | | 5.24 | 13 | 6.88 | | 5.25 | 15 | 8.10 | | | | | 31 |
| TOTAL | | 186.99 | | 271.55 | | 158.10 | | 286.80 | | 401.41 | | 817.78 | TOTAL |
| MEAN | | 6.10 | | 8.76 | | 5.10 | | 9.60 | | 13.4 | | 27.3 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 10.7 | 38 S | 38.1 | 5.0 | 11.6 | 81 S | 81.2 | | 1.95 B | 23 | 3.26 | 1 |
| 2 | | 9.87 | 45 | 38.6 | | 7.17 | 91 | 56.4 | | 1.61 B | 23 | 3.00 | 2 |
| 3 | | 8.65 | 55 | 41.1 | 5.5 | 8.21 | 229 S | 123 | | 1.37 B | 22 | 2.60 | 3 |
| 4 | 7.5 | 5.77 | 87 S | 38.2 | | 7.26 | 284 | 178 | | 1.33 B | 22 | 2.53 | 4 |
| 5 | | 4.35 | 87 | 32.7 | | 4.37 | 223 | 83.8 | | 1.27 B | 22 | 2.41 | 5 |
| 6 | | 3.78 | 120 | 28.8 | | 3.01 | 188 | 49.2 | 0.5 | 1.24 B | 22 S | 2.38 | 6 |
| 7 | | 3.84 | 148 | 45.8 | | 3.46 | 184 | 55.0 | | 1.28 B | 22 | 2.43 | 7 |
| 8 | | 4.09 | 171 | 60.6 | | 3.05 | 136 | 26.2 | | 1.23 B | 23 | 2.44 | 8 |
| 9 | | 4.83 | 179 | 71.8 | | 3.26 | 100 | 28.1 | | 1.13 B | 22 | 2.15 | 9 |
| 10 | | 3.83 | 178 | 83.2 | | 4.08 | 120 | 42.4 | | 1.16 B | 24 | 2.38 | 10 |
| 11 | | 1.80 | 185 | 25.7 | | 2.87 | 92 | 22.8 | | 1.09 B | 27 | 2.84 | 11 |
| 12 | | 1.35 | 186 | 18.1 | | 3.41 | 81 | 18.0 | | 1.03 B | 28 | 2.86 | 12 |
| 13 | | 2.23 | 188 | 30.4 | | 4.44 | 48 | 16.4 | | 0.878 B | 31 | 2.82 | 13 |
| 14 | 7.0 | 2.74 | 185 S | 39.1 | | 4.83 | 44 | 17.8 | | 0.819 B | 32 | 2.54 | 14 |
| 15 | | 3.03 | 158 | 27.7 | | 4.26 | 46 | 16.5 | | 0.823 B | 33 | 2.38 | 15 |
| 16 | | 1.06 | 134 | 13.3 | | 4.68 | 63 | 25.5 | | 0.744 B | 35 | 2.25 | 16 |
| 17 | | 0.648 | 107 | 5.07 | | 4.14 | 62 | 22.2 | | 0.681 B | 36 | 2.15 | 17 |
| 18 | | 0.384 | 84 | 2.79 | | 3.83 | 44 | 10.00 | | 0.654 B | 37 | 2.09 | 18 |
| 19 | | 0.335 | 73 | 2.11 | | 2.18 | 40 | 7.48 | | 0.685 B | 41 | 2.36 | 19 |
| 20 | | 0.375 | 77 | 2.48 | | 1.77 | 38 | 5.81 | | 0.868 B | 45 | 2.56 | 20 |
| 21 | | 0.874 | 88 | 4.81 | | 1.24 B | 37 | 3.98 | | 0.824 B | 47 | 2.57 | 21 |
| 22 | | 8.73 | 178 | 102 | | 1.74 B | 36 | 5.41 | | 0.804 B | 48 | 2.61 | 22 |
| 23 | | 11.8 | 207 | 211 | | 2.02 B | 36 | 6.28 | | 0.898 B | 50 | 2.86 | 23 |
| 24 | 10.0 | 12.4 | 148 S | 158 | | 2.05 B | 36 | 8.20 | | 0.894 B | 50 | 2.87 | 24 |
| 25 | | 11.7 | 106 | 106 | | 1.61 B | 33 | 4.59 | | 0.880 B | 50 | 2.81 | 25 |
| 26 | | 12.4 | 103 | 110 | | 1.30 B | 30 | 3.37 | | 0.863 B | 50 | 2.43 | 26 |
| 27 | | 13.9 | 112 | 135 | | 1.33 B | 24 | 2.78 | | 0.839 B | 48 | 2.24 | 27 |
| 28 | | 13.6 | 128 | 148 | | 1.60 B | 24 | 3.32 | | 0.833 B | 47 | 2.16 | 28 |
| 29 | | 16.0 | 138 | 191 | | 1.76 B | 23 | 3.48 | | 0.847 B | 46 | 2.17 | 29 |
| 30 | | 16.8 | 139 | 187 | | 1.88 B | 23 | 3.36 | | 0.847 B | 45 | 2.13 | 30 |
| 31 | | 14.8 | 108 | 139 | | | | | | 0.831 B | 43 | 1.93 | 31 |
| TOTAL | | 202.836 | | 2 105.87 | | 103.80 | | 938.70 | | 27.872 | | 76.42 | TOTAL |
| MEAN | | 6.84 | | 67.9 | | 3.46 | | 31.3 | | 0.893 | | 2.43 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 10 367.36 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 21 | |
| MAXIMUM DAILY | 384 | ON NOV 04 |
| MINIMUM DAILY | 4 | ON MAY 07 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 28.4 | |
| MAXIMUM DAILY | 211 | ON OCT 23 |
| MINIMUM DAILY | 1.83 | ON DEC 31 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 37 N
LONG 100 07 12 W
DRAINAGE AREA 43 300 $km^2$
REGULATED FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

SOURIS RIVER NEAR COULTER - STATION NO. 05NF019

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| NOV 03 | 14:15 | 8.21 | 5.5 | 282 K | 46 | 54 | 77 | 93 | 97 | 99 | 99 | 100 | | | SNW |

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MANITOBA

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 4.50 E | 40 | 15.8 | 1 |
| 2 | | | | | | | | | | 4.52 E | 40 | 15.8 | 2 |
| 3 | | | | | | | | | | 4.60 E | 40 | 15.9 | 3 |
| 4 | | | | | | | | | | 4.70 E | 40 | 16.2 | 4 |
| 5 | | | | | | | | | | 4.80 E | 40 | 16.6 | 5 |
| 6 | | | | | | | | | | 5.00 E | 35 | 15.1 | 6 |
| 7 | | | | | | | | | | 5.30 E | 35 | 16.0 | 7 |
| 8 | | | | | | | | | | 5.50 E | 35 | 16.6 | 8 |
| 9 | | | | | | | | | | 5.00 E | 35 | 15.1 | 9 |
| 10 | | | | | | | | | | 5.50 E | 35 | 16.7 | 10 |
| 11 | | | | | | | | | | 7.00 E | 30 | 18.1 | 11 |
| 12 | | | | | | | | | | 7.80 E | 30 | 20.5 | 12 |
| 13 | | | | | | | | | | 9.00 E | 30 | 23.3 | 13 |
| 14 | | | | | | | | | | 10.3 E | 30 | 26.7 | 14 |
| 15 | | | | | | | | | | 12.0 E | 30 | 31.1 | 15 |
| 16 | | | | | | | | | | 14.0 E | 35 | 30.2 | 16 |
| 17 | | | | | | | | | | 17.0 E | 35 | 36.7 | 17 |
| 18 | | | | | | | | | | 19.0 E | 35 | 41.0 | 18 |
| 19 | | | | | | | | | | 21.0 E | 35 | 45.4 | 19 |
| 20 | | | | | | | | | | 23.0 E | 35 | 49.7 | 20 |
| 21 | | | | | | | | | | 24.4 E | 30 | 42.2 | 21 |
| 22 | | | | | | | | | | 25.5 E | 30 | 44.6 | 22 |
| 23 | | | | | | | | | | 27.3 E | 30 | 47.2 | 23 |
| 24 | | | | | | | | | | 28.5 E | 30 | 49.6 | 24 |
| 25 | | | | | | | | | | 30.1 E | 30 | 52.0 | 25 |
| 26 | | | | | | | | | | 31.2 E | 30 | 53.8 | 26 |
| 27 | | | | | | | | | | 32.8 E | 30 | 56.9 | 27 |
| 28 | | | | | | | | | | 34.5 E | 30 | 59.6 | 28 |
| 29 | | | | | | | | | | 36.7 E | 30 | 63.4 | 29 |
| 30 | | | | | | | | | | 39.2 E | 30 | 67.7 | 30 |
| 31 | | | | | | | | | | 41.1 E | 30 | 71.0 | 31 |
| TOTAL | | | | | | | | | | 543.72 | | 1 088.7 | TOTAL |
| MEAN | | | | | | | | | | 17.5 | | 35.4 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.5 | 43.5 E | 21 E | 78.8 | 11.0 | 78.4 | 18 S | 118 | 15.0 | 21.0 | 40 S | 72.8 | 1 |
| 2 | | 46.7 E | 22 | 88.5 | | 76.1 | 20 | 191 | 15.0 | 19.8 | 40 S | 67.7 | 2 |
| 3 | 2.0 | 50.2 E | 24 E | 104 | 10.0 | 75.5 | 43 S | 280 | 15.0 | 18.3 | 40 | 58.3 | 3 |
| 4 | | 52.7 E | 27 | 123 | | 74.0 | 36 | 243 | 15.0 | 11.8 | 40 S | 41.1 | 4 |
| 5 | 2.0 | 55.3 E | 31 S | 148 | 12.0 | 73.4 | 34 E | 213 | 16.0 | 8.37 | 36 S | 27.6 | 5 |
| 6 | 2.0 | 55.2 E | 32 S | 155 | | 71.2 | 28 | 172 | | 5.49 | 33 | 15.5 | 6 |
| 7 | 3.0 | 55.2 E | 31 S | 155 | 14.0 | 69.8 | 20 S | 121 | 17.0 | 5.25 | 30 S | 13.7 | 7 |
| 8 | 5.0 | 54.0 E | 43 S | 232 | | 68.4 | 15 | 84.8 | 16.0 | 4.10 | 29 S | 10.3 | 8 |
| 9 | 4.0 | 52.1 E | 61 S | 291 | 14.0 | 67.7 | 25 S | 146 | | 4.88 | 30 | 12.8 | 9 |
| 10 | 5.0 | 50.4 | 30 S | 373 | 14.0 | 67.4 | 73 S | 425 | | 5.18 | 35 | 16.6 | 10 |
| 11 | 5.0 | 50.5 | 30 S | 235 | 10.0 | 66.1 | 39 S | 223 | | 4.04 | 41 | 28.6 | 11 |
| 12 | 4.0 | 67.4 | 40 S | 302 | 5.0 | 66.2 | 44 S | 382 | 21.0 | 5.28 | 47 S | 37.7 | 12 |
| 13 | 2.5 | 63.5 | 49 S | 364 | 1.0 | 65.6 | 63 S | 300 | 20.0 | 10.5 | 52 S | 47.2 | 13 |
| 14 | 3.0 | 61.6 | 39 S | 278 | 3.0 | 62.8 | 51 S | 188 | 15.0 | 10.5 | 52 S | 47.6 | 14 |
| 15 | 3.0 | 61.2 | 34 S | 238 | 8.0 | 61.2 | 17 S | 89.8 | 18.0 | 9.67 | 50 S | 42.6 | 15 |
| 16 | 3.5 | 60.3 | 28 S | 201 | 8.0 | 58.8 | 17 S | 87.6 | 20.0 | 9.08 | 52 S | 41.6 | 16 |
| 17 | 2.0 | 60.5 | 26 S | 181 | 10.0 | 58.8 | 17 S | 88.5 | 20.0 | 8.74 | 44 S | 33.2 | 17 |
| 18 | 4.0 | 60.6 | 26 S | 182 | 11.0 | 58.3 | 18 S | 90.7 | | 5.23 | 38 | 30.3 | 18 |
| 19 | 4.0 | 61.3 | 24 S | 188 | 10.0 | 57.5 | 18 S | 84.4 | 20.0 | 9.71 | 41 S | 34.4 | 19 |
| 20 | 4.0 | 61.3 | 22 S | 155 | 12.0 | 55.7 | 20 S | 88.2 | 21.0 | 9.83 | 41 S | 35.2 | 20 |
| 21 | 8.0 | 61.1 | 23 S | 181 | 14.0 | 53.7 | 33 S | 107 | 20.0 | 8.14 | 39 S | 30.6 | 21 |
| 22 | 8.0 | 60.0 | 23 S | 159 | 15.0 | 51.5 | 32 S | 87.8 | 20.0 | 6.65 | 36 S | 28.8 | 22 |
| 23 | 8.0 | 78.8 | 20 S | 135 | | 49.2 | 31 | 88.3 | 21.0 | 6.08 | 38 S | 27.2 | 23 |
| 24 | 13.0 | 77.4 | 26 S | 174 | 14.0 | 47.1 | 32 S | 88.5 | | 6.18 | 42 | 28.7 | 24 |
| 25 | 14.0 | 76.5 | 39 S | 251 | 14.0 | 46.5 | 33 S | 88.4 | 24.0 | 6.31 | 40 S | 28.7 | 25 |
| 26 | 9.0 | 78.1 | 80 S | 528 | 15.0 | 41.7 | 34 | 88.5 | | 6.18 | 39 | 27.6 | 26 |
| 27 | 9.0 | 76.8 | 57 S | 374 | 15.0 | 38.3 | 35 S | 82.7 | | 7.78 | 38 | 28.8 | 27 |
| 28 | | 76.6 | 35 | 238 | 15.0 | 33.6 | 36 S | 81.3 | 21.0 | 7.40 | 38 S | 23.0 | 28 |
| 29 | 9.0 | 76.6 | 24 S | 157 | 13.0 | 28.5 | 34 S | 82.1 | | 7.31 | 38 | 22.7 | 29 |
| 30 | | 78.3 | 20 | 132 | 15.0 | 24.4 | 37 S | 78.0 | | 7.67 | 38 | 23.9 | 30 |
| 31 | | | | | 15.0 | 22.2 | 40 S | 76.7 | | | | | 31 |
| TOTAL | | 2 201.5 | | 8 241.7 | | 1 785.5 | | 4 453.5 | | 275.80 | | 983.5 | TOTAL |
| MEAN | | 73.4 | | 266 | | 57.0 | | 144 | | 9.33 | | 32.8 | MEAN |

MANITOBA

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG035

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 7.62 | 30 | 19.8 | 25.0 | 5.48 | 11 S | 5.21 | | 5.69 | 43 | 19.8 | 1 |
| 2 | | 7.78 | 32 | 21.5 | | 5.25 | 12 | 5.44 | | 5.43 | 43 | 20.1 | 2 |
| 3 | | 7.81 | 32 | 21.9 | | 5.31 | 15 | 7.34 | | 5.06 | 44 | 23.0 | 3 |
| 4 | | 7.80 | 37 | 17.5 | 23.0 | 5.08 | 15 S | 7.04 | 21.0 | 7.42 | 46 S | 29.6 | 4 |
| 5 | 18.0 | 7.01 | 34 S | 14.6 | | 4.87 | 18 | 5.73 | | 5.43 | 47 | 34.2 | 5 |
| 6 | | 6.73 | 23 | 12.8 | | 4.59 | 15 | 5.05 | | 5.13 | 47 | 37.1 | 6 |
| 7 | | 5.88 | 21 | 12.1 | | 4.26 | 14 | 5.15 | | 5.80 | 48 | 41.8 | 7 |
| 8 | | 5.57 | 20 | 11.4 | | 4.14 | 14 | 5.01 | 12.0 | 12.5 | 59 | 63.7 | 8 |
| 9 | 25.0 | 5.48 | 20 S | 11.2 | 23.0 | 4.00 | 14 S | 4.84 | | 15.4 | 55 | 73.2 | 9 |
| 10 | | 5.58 | 23 | 13.1 | | 3.79 | 14 | 4.58 | | 16.8 | 51 | 74.0 | 10 |
| 11 | | 6.29 | 20 | 10.9 | | 3.68 | 18 | 5.72 | 15.0 | 17.5 | 50 S | 75.5 | 11 |
| 12 | | 6.09 | 18 | 9.47 | 24.0 | 3.57 | 18 S | 5.68 | | 18.1 | 50 | 78.2 | 12 |
| 13 | 24.0 | 6.01 | 18 | 8.31 | | 3.43 | 18 | 5.32 | | 18.5 | 53 | 84.7 | 13 |
| 14 | | 5.89 | 14 | 7.26 | | 3.43 | 17 | 5.04 | 12.0 | 18.5 | 53 S | 85.2 | 14 |
| 15 | | 5.83 | 13 | 6.56 | 23.0 | 3.50 | 17 S | 5.14 | | 17.9 | 51 | 78.9 | 15 |
| 16 | | 5.88 | 13 | 6.80 | | 3.57 | 17 | 5.24 | | 15.7 | 50 | 67.8 | 16 |
| 17 | 25.0 | 5.78 | 12 S | 5.98 | | 3.80 | 17 | 5.58 | 12.0 | 13.8 | 50 S | 59.8 | 17 |
| 18 | | 5.69 | 12 | 5.90 | | 4.66 | 35 | 10.1 | | 12.1 | 50 | 53.3 | 18 |
| 19 | | 5.48 | 12 | 5.68 | | 5.08 | 39 | 12.7 | | 10.7 | 49 | 45.3 | 19 |
| 20 | | 5.28 | 12 | 5.47 | 21.0 | 4.81 | 38 S | 10.8 | 12.0 | 10.1 | 49 S | 42.8 | 20 |
| 21 | 25.0 | 5.51 | 12 S | 5.82 | | 4.74 | 26 | 10.5 | | 9.80 | 48 | 38.9 | 21 |
| 22 | | 5.75 | 12 | 5.98 | 19.0 | 4.93 | 28 S | 13.4 | | 10.0 | 40 | 34.8 | 22 |
| 23 | | 6.05 | 12 | 6.27 | | 5.18 | 34 | 15.2 | 10.0 | 11.0 | 38 S | 38.1 | 23 |
| 24 | | 6.22 | 12 | 6.46 | 19.0 | 5.38 | 40 S | 15.5 | | 12.0 | 38 | 39.4 | 24 |
| 25 | | 6.16 | 12 | 6.41 | | 5.48 | 38 | 17.9 | 10.0 | 12.5 | 40 S | 43.2 | 25 |
| 26 | | 6.22 | 13 | 6.88 | | 5.82 | 38 | 17.2 | | 12.7 | 41 | 45.0 | 26 |
| 27 | 25.0 | 6.41 | 13 S | 7.20 | 23.0 | 5.85 | 34 S | 16.6 | | 12.7 | 40 | 43.9 | 27 |
| 28 | 25.0 | 6.32 | 13 S | 7.10 | | 5.72 | 35 | 17.3 | 12.0 | 12.8 | 39 S | 42.1 | 28 |
| 29 | | 6.18 | 12 | 6.42 | | 5.60 | 38 | 18.0 | | 11.8 | 37 | 38.0 | 29 |
| 30 | | 6.28 | 12 | 6.51 | 25.0 | 5.63 | 35 S | 17.5 | 11.0 | 11.4 | 35 S | 34.5 | 30 |
| 31 | | 6.06 | 11 | 5.78 | 25.0 | 5.58 | 35 S | 18.7 | | | | | 31 |
| TOTAL | | 196.40 | | 284.76 | | 146.80 | | 309.69 | | 385.84 | | 1 481.9 | TOTAL |
| MEAN | | 6.34 | | 9.64 | | 4.70 | | 9.99 | | 12.2 | | 49.4 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 10.8 | 35 | 32.7 | | | 42 | | | | | | 1 |
| 2 | 9.0 | 10.2 | 35 S | 30.8 | 5.0 | | 41 S | | | | | | 2 |
| 3 | | 9.62 | 38 | 31.6 | | | | | | | | | 3 |
| 4 | | 8.98 | 39 | 30.3 | | | | | | | | | 4 |
| 5 | 7.0 | 7.88 | 36 S | 25.2 | | | | | | | | | 5 |
| 6 | | 6.73 | 35 | 20.4 | | | | | | | | | 6 |
| 7 | 10.0 | 5.33 | 31 S | 14.3 | | | | | | | | | 7 |
| 8 | | 4.31 | 28 | 10.8 | | | | | | | | | 8 |
| 9 | | 4.08 | 28 | 9.80 | | | | | | | | | 9 |
| 10 | | 4.28 | 30 | 11.1 | | | | | | | | | 10 |
| 11 | 8.0 | 4.60 | 33 S | 12.8 | | | | | | | | | 11 |
| 12 | | 4.13 | 33 | 11.7 | | | | | | | | | 12 |
| 13 | 7.0 | 3.37 | 32 S | 9.32 | | | | | | | | | 13 |
| 14 | | 2.68 | 31 | 7.18 | | | | | | | | | 14 |
| 15 | | 2.39 | 31 | 8.40 | | | | | | | | | 15 |
| 16 | 5.0 | 2.52 | 35 S | 8.49 | | | | | | | | | 16 |
| 17 | | 2.61 | 42 | 9.47 | | | | | | | | | 17 |
| 18 | 5.0 | 2.43 | 36 S | 7.58 | | | | | | | | | 18 |
| 19 | | 1.89 | 35 | 5.72 | | | | | | | | | 19 |
| 20 | 4.0 | 1.41 | 41 S | 4.89 | | | | | | | | | 20 |
| 21 | | 1.02 | 41 | 3.61 | | | | | | | | | 21 |
| 22 | 10.0 | 0.773 | 40 S | 2.67 | | | | | | | | | 22 |
| 23 | | 0.500 | 38 | 1.84 | | | | | | | | | 23 |
| 24 | 5.0 | 2.73 | 55 S | 13.0 | | | | | | | | | 24 |
| 25 | | 7.93 | 75 | 51.4 | | | | | | | | | 25 |
| 26 | | 9.24 | 58 | 46.3 | | | | | | | | | 26 |
| 27 | 5.0 | 8.84 | 43 S | 35.6 | | | | | | | | | 27 |
| 28 | | 10.3 | 42 | 37.4 | | | | | | | | | 28 |
| 29 | 8.0 | 10.8 | 46 S | 42.9 | | | | | | | | | 29 |
| 30 | | 11.5 | 45 | 44.7 | | | | | | | | | 30 |
| 31 | 8.0 | 12.6 | 43 S | 46.8 | | | | | | | | | 31 |
| TOTAL | | 177.223 | | 627.65 | | | | | | | | | TOTA |
| MEAN | | 5.72 | | 20.3 | | | | | | | | | MEA |

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | |
|---|---|
| MEAN | 32 |
| MAXIMUM DAILY | 80 ON APR 28 |
| MINIMUM DAILY | 11 ON JUL 31 |

SUSPENDED SEDIMENT LOAD(t/d)

| | |
|---|---|
| MEAN | 83.2 |
| MAXIMUM DAILY | 535 ON APR 28 |
| MINIMUM DAILY | 1.84 ON OCT 23 |

TOTAL SUSPENDED SEDIMENT LOAD IS 493.80

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 24 00 N
LONG 100 46 37 W

REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

SOURIS RIVER NEAR MINTO - STATION NO. 05NG039

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | 40 | | 1 |
| 2 | | | | | | | | | | | 40 | | 2 |
| 3 | | | | | | | | | | | 40 | | 3 |
| 4 | | | | | | | | | | | 40 | | 4 |
| 5 | | | | | | | | | | | 40 | | 5 |
| 6 | | | | | | | | | | | 40 | | 6 |
| 7 | | | | | | | | | | | 40 | | 7 |
| 8 | | | | | | | | | | | 40 | | 8 |
| 9 | | | | | | | | | | | 40 | | 9 |
| 10 | | | | | | | | | | | 40 | | 10 |
| 11 | | | | | | | | | | | 38 | | 11 |
| 12 | | | | | | | | | | | 38 | | 12 |
| 13 | | | | | | | | | | | 38 | | 13 |
| 14 | | | | | | | | | | | 38 | | 14 |
| 15 | | | | | | | | | | | 38 | | 15 |
| 16 | | | | | | | | | | | 32 | | 16 |
| 17 | | | | | | | | | | | 32 | | 17 |
| 18 | | | | | | | | | | | 32 | | 18 |
| 19 | | | | | | | | | | | 32 | | 19 |
| 20 | | | | | | | | | | | 32 | | 20 |
| 21 | | | | | | | | | | | 28 | | 21 |
| 22 | | | | | | | | | | | 28 | | 22 |
| 23 | | | | | | | | | | | 28 | | 23 |
| 24 | | | | | | | | | | | 28 | | 24 |
| 25 | | | | | | | | | | | 28 | | 25 |
| 26 | | | | | | | | | | | 30 | | 26 |
| 27 | | | | | | | | | | | 30 | | 27 |
| 28 | | | | | | | | | | | 35 | | 28 |
| 29 | | | | | | | | | | | 42 | | 29 |
| 30 | | | | | | | | | | | 50 | | 30 |
| 31 | | | | | | | | | 0.5 | | 53 S | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 54 | | 10.0 | | 48 S | | | | 27 | | 1 |
| 2 | | | 64 | | 10.0 | | 48 S | | | | 27 | | 2 |
| 3 | | | 83 | | 10.0 | | 43 S | | 18.0 | | 37 S | | 3 |
| 4 | 0.5 | | 130 S | | 12.0 | | 42 S | | 15.0 | | 22 S | | 4 |
| 5 | | | 214 | | 12.0 | | 43 S | | | | 32 | | 5 |
| 6 | | | 282 | | 11.0 | | 38 S | | 14.0 | | 24 S | | 6 |
| 7 | | | 268 | | 11.0 | | 34 S | | | | 34 | | 7 |
| 8 | 0.5 | | 280 S | | 13.0 | | 38 S | | | | 19 | | 8 |
| 9 | | | 238 | | 12.5 | | 37 S | | 15.0 | | 17 S | | 9 |
| 10 | 3.5 | | 180 S | | 14.0 | | 39 S | | | | 20 | | 10 |
| 11 | | | 147 | | 10.0 | | 48 S | | 17.0 | | 28 S | | 11 |
| 12 | 4.5 | | 122 S | | 2.0 | | 41 S | | | | 28 | | 12 |
| 13 | 5.0 | | 114 S | | 3.0 | | 38 S | | 14.0 | | 25 S | | 13 |
| 14 | 4.0 | | 102 S | | 3.0 | | 44 S | | | | 23 | | 14 |
| 15 | 4.5 | | 88 S | | 7.5 | | 3- S | | 17.0 | | 23 S | | 15 |
| 16 | 3.5 | | 72 S | | 10.0 | | 32 S | | | | 28 | | 16 |
| 17 | 3.5 | | 88 S | | 12.0 | | 30 S | | 18.0 | | 28 S | | 17 |
| 18 | 3.5 | | 88 S | | 12.0 | | 28 S | | 17.0 | | 27 S | | 18 |
| 19 | 3.5 | | 81 S | | 13.0 | | 30 S | | 20.0 | | 24 S | | 19 |
| 20 | 6.5 | | 83 S | | 15.5 | | 29 S | | 18.0 | | 31 S | | 20 |
| 21 | 7.5 | | 61 S | | 15.0 | | 27 S | | 18.0 | | 20 S | | 21 |
| 22 | 11.0 | | 60 S | | 15.0 | | 28 S | | 17.0 | | 31 S | | 22 |
| 23 | 11.0 | | 59 S | | 15.5 | | 27 S | | 20.0 | | 31 S | | 23 |
| 24 | 11.0 | | 88 S | | 15.0 | | 28 S | | 20.0 | | 18 S | | 24 |
| 25 | 11.5 | | 88 S | | 21.0 | | 27 S | | 18.0 | | 17 S | | 25 |
| 26 | 10.0 | | 88 S | | 20.0 | | 26 S | | 19.0 | | 17 S | | 26 |
| 27 | 10.0 | | 88 S | | 20.0 | | 25 S | | 20.0 | | 18 S | | 27 |
| 28 | 7.5 | | 61 S | | 19.0 | | 17 S | | 22.5 | | 18 S | | 28 |
| 29 | 10.0 | | 88 S | | 18.0 | | 24 S | | 25.0 | | 15 S | | 29 |
| 30 | 10.0 | | 83 S | | | | 27 | | 24.0 | | 15 S | | 30 |
| 31 | | | | | 18.0 | | 27 S | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

MANITOBA

SOURIS RIVER NEAR MINTO - STATION NO. 05NE026

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 32.0 | | 17 S | | | | | | | | 27 S | | 1 |
| 2 | 23.0 | | 13 S | | 25.0 | | 14 S | | 25.0 | | 28 | | 2 |
| 3 | 18.0 | | 12 S | | | | 14 | | | | 30 | | 3 |
| 4 | 20.0 | | 11 S | | | | 13 | | | | 32 | | 4 |
| 5 | 23.0 | | 10 S | | | | 13 | | | | 33 | | 5 |
| | | | | | | | 12 | | | | | | |
| 6 | 21.0 | | 9 S | | 24.0 | | 12 S | | 25.0 | | 34 S | | 6 |
| 7 | 24.0 | | 8 S | | | | 15 | | | | 35 | | 7 |
| 8 | 25.0 | | 10 S | | 24.0 | | 15 S | | | | 35 | | 8 |
| 9 | 27.0 | | 8 S | | | | 18 | | 22.0 | | 38 S | | 9 |
| 10 | 22.0 | | 8 S | | | | 16 | | | | 39 | | 10 |
| 11 | 24.0 | | 10 S | | | | 15 | | | | 39 | | 11 |
| 12 | 22.0 | | 9 S | | | | 13 | | | | 40 | | 12 |
| 13 | 25.0 | | 9 S | | 25.0 | | 12 S | | 22.0 | | 41 S | | 13 |
| 14 | 25.0 | | 9 S | | 25.0 | | 13 | | | | 41 | | 14 |
| 15 | 30.0 | | 9 S | | | | 14 S | | | | 40 | | 15 |
| 16 | 22.0 | | 8 S | | | | 14 | | 20.0 | | 38 S | | 16 |
| 17 | 25.0 | | 10 S | | | | 15 | | | | 37 | | 17 |
| 18 | 23.0 | | 9 S | | | | 15 | | | | 36 | | 18 |
| 19 | 24.0 | | 15 S | | | | 16 | | | | 35 | | 19 |
| 20 | 25.0 | | 21 S | | 24.0 | | 17 S | | 15.0 | | 35 S | | 20 |
| 21 | 25.0 | | 15 S | | | | 18 | | | | 34 | | 21 |
| 22 | 24.0 | | 15 S | | 25.0 | | 20 S | | | | 34 | | 22 |
| 23 | 23.0 | | 15 S | | | | 20 | | 15.0 | | 33 S | | 23 |
| 24 | 23.0 | | 15 S | | | | 19 | | | | 33 | | 24 |
| 25 | 24.0 | | 19 S | | | | 18 | | | | 33 | | 25 |
| 26 | 24.0 | | 17 S | | | | 17 | | | | 34 | | 26 |
| 27 | | | 18 | | 27.0 | | 17 S | | 13.0 | | 36 S | | 27 |
| 28 | | | 18 | | | | 19 | | | | 37 | | 28 |
| 29 | | | 16 | | 24.0 | | 21 S | | | | 38 | | 29 |
| 30 | | | 14 | | | | 23 | | 12.0 | | 38 S | | 30 |
| 31 | | | 14 | | | | 25 | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 36 | | | | | | | | | | 1 |
| 2 | | | 37 | | | | | | | | | | 2 |
| 3 | 13.0 | | 33 S | | | | | | | | | | 3 |
| 4 | | | 26 | | | | | | | | | | 4 |
| 5 | 7.0 | | 22 S | | | | | | | | | | 5 |
| 6 | | | 18 | | | | | | | | | | 6 |
| 7 | | | 17 | | | | | | | | | | 7 |
| 8 | | | 17 | | | | | | | | | | 8 |
| 9 | | | 16 | | | | | | | | | | 9 |
| 10 | | | 16 | | | | | | | | | | 10 |
| 11 | | | 16 | | | | | | | | | | 11 |
| 12 | | | 16 | | | | | | | | | | 12 |
| 13 | | | 16 | | | | | | | | | | 13 |
| 14 | | | 18 | | | | | | | | | | 14 |
| 15 | | | 17 | | | | | | | | | | 15 |
| 16 | | | 17 | | | | | | | | | | 16 |
| 17 | | | 17 | | | | | | | | | | 17 |
| 18 | | | 17 | | | | | | | | | | 18 |
| 19 | | | 17 | | | | | | | | | | 19 |
| 20 | | | 17 | | | | | | | | | | 20 |
| 21 | | | 17 | | | | | | | | | | 21 |
| 22 | | | 18 | | | | | | | | | | 22 |
| 23 | | | 19 | | | | | | | | | | 23 |
| 24 | | | 20 | | | | | | | | | | 24 |
| 25 | | | 22 | | | | | | | | | | 25 |
| 26 | | | 24 | | | | | | | | | | 26 |
| 27 | | | 26 | | | | | | | | | | 27 |
| 28 | | | 34 | | | | | | | | | | 28 |
| 29 | | | 40 | | | | | | | | | | 29 |
| 30 | | | 44 | | | | | | | | | | 30 |
| 31 | | | 39 S | | | | | | | | | | 31 |
| TOTAL MEAN | | | | | | | | | | | | | TOTAL MEAN |

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 393 MG/APR 08
MINIMUM DAILY 8 MG/JUL 07

TYPE OF GAUGE - MANUAL
LOCATION - LAT N
LONG W

REGULATED FLOW

S - SAMPLE(S) COLLECTED THIS DAY

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 0.455 B | 10 | 0.39 | 1 |
| 2 | | | | | | | | | | 0.455 B | 10 | 0.39 | 2 |
| 3 | | | | | | | | | | 0.455 B | 10 | 0.39 | 3 |
| 4 | | | | | | | | | | 0.455 B | 10 | 0.39 | 4 |
| 5 | | | | | | | | | | 0.455 B | 10 | 0.39 | 5 |
| 6 | | | | | | | | | | 0.455 B | 9 | 0.35 | 6 |
| 7 | | | | | | | | | | 0.455 B | 9 | 0.35 | 7 |
| 8 | | | | | | | | | | 0.480 B | 9 | 0.38 | 8 |
| 9 | | | | | | | | | | 0.480 B | 9 | 0.38 | 9 |
| 10 | | | | | | | | | | 0.480 B | 9 | 0.38 | 10 |
| 11 | | | | | | | | | | 0.480 B | 8 | 0.32 | 11 |
| 12 | | | | | | | | | | 0.480 B | 8 | 0.32 | 12 |
| 13 | | | | | | | | | | 0.480 B | 8 | 0.32 | 13 |
| 14 | | | | | | | | | | 0.480 B | 8 | 0.32 | 14 |
| 15 | | | | | | | | | | 0.480 B | 8 | 0.32 | 15 |
| 16 | | | | | | | | | | 0.480 B | 7 | 0.28 | 16 |
| 17 | | | | | | | | | | 0.434 B | 7 | 0.28 | 17 |
| 18 | | | | | | | | | | 0.405 B | 7 | 0.24 | 18 |
| 19 | | | | | | | | | | 0.376 B | 7 | 0.23 | 19 |
| 20 | | | | | | | | | | 0.348 B | 7 | 0.21 | 20 |
| 21 | | | | | | | | | | 0.322 B | 6 | 0.17 | 21 |
| 22 | | | | | | | | | | 0.293 B | 6 | 0.15 | 22 |
| 23 | | | | | | | | | | 0.262 B | 6 | 0.14 | 23 |
| 24 | | | | | | | | | | 0.241 B | 6 | 0.12 | 24 |
| 25 | | | | | | | | | | 0.222 B | 6 | 0.12 | 25 |
| 26 | | | | | | | | | | 0.200 B | 5 | 0.09 | 26 |
| 27 | | | | | | | | | | 0.185 B | 5 | 0.08 | 27 |
| 28 | | | | | | | | | | 0.171 B | 5 | 0.07 | 28 |
| 29 | | | | | | | | | | 0.156 B | 5 | 0.07 | 29 |
| 30 | | | | | | | | | | 0.141 B | 5 | 0.06 | 30 |
| 31 | | | | | | | | | | 0.133 B | 5 | 0.06 | 31 |
| TOTAL | | | | | | | | | | 11.214 | | 7.88 | TOTAL |
| MEAN | | | | | | | | | | 0.362 | | 0.25 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.121 B | 5 | 0.05 | 7.5 | 17.0 | 88 S | 89.9 | | 11.2 | 47 | 45.5 | 1 |
| 2 | | 0.108 B | 5 | 0.05 | 7.0 | 14.4 | 49 S | 61.0 | | 9.48 | 41 | 33.5 | 2 |
| 3 | | 0.086 B | 5 | 0.04 | 7.0 | 13.9 | 41 S | 46.7 | | 8.88 | 34 | 26.1 | 3 |
| 4 | | 0.088 B | 5 | 0.04 | 6.0 | 11.8 | 40 S | 40.8 | | 8.43 | 28 | 20.4 | 4 |
| 5 | | 0.085 B | 5 | 0.04 | 9.0 | 10.7 | 38 S | 33.3 | | 8.30 | 24 | 17.2 | 5 |
| 6 | | 0.082 B | 5 | 0.04 | 11.0 | 9.59 | 32 S | 28.8 | | 8.16 | 23 | 15.5 | 6 |
| 7 | | 0.078 B | 5 | 0.03 | 11.0 | 8.85 | 26 S | 21.4 | | 7.83 | 19 | 12.5 | 7 |
| 8 | | 0.087 B | 5 | 0.04 | 11.0 | 8.07 | 27 S | 18.8 | 18.0 | 7.43 | 17 S | 10.9 | 8 |
| 9 | | 0.084 B | 5 | 0.04 | 12.0 | 7.38 | 25 S | 16.0 | | 7.32 | 16 | 10.1 | 9 |
| 10 | | 0.108 B | 5 | 0.05 | | 6.92 | 24 | 14.3 | | 7.38 | 16 | 10.2 | 10 |
| 11 | | 0.246 B | 5 | 0.11 | 10.0 | 6.35 | 23 S | 12.6 | | 8.90 | 18 | 9.84 | 11 |
| 12 | | 0.648 B | 5 | 0.28 | | 6.24 | 28 | 13.5 | 19.0 | 8.69 | 16 S | 9.11 | 12 |
| 13 | | 0.649 B | 5 | 0.28 | 2.0 | 6.52 | 41 S | 23.1 | | 8.84 | 15 | 8.48 | 13 |
| 14 | | 0.531 B | 5 | 0.23 | | 6.04 | 29 | 15.1 | | 8.68 | 19 | 11.3 | 14 |
| 15 | | 0.483 B | 5 | 0.21 | 5.0 | 5.85 | 17 S | 8.59 | 11.8 | | 54 | 55.1 | 15 |
| 16 | | 0.412 B | 5 | 0.18 | 9.0 | 8.15 | 16 S | 8.50 | 18.0 | 11.3 | 43 S | 42.0 | 16 |
| 17 | | 0.386 B | 5 | 0.18 | | 7.45 | 16 | 10.3 | | 10.4 | 37 | 33.2 | 17 |
| 18 | | 0.361 B | 5 | 0.15 | 11.5 | 8.22 | 17 S | 13.5 | 20.0 | 9.61 | 31 S | 25.7 | 18 |
| 19 | | 0.556 B | 10 | 0.48 | | 10.8 | 28 | 26.4 | | 8.89 | 27 | 20.7 | 19 |
| 20 | | 2.03 B | 13 S | 2.28 | 10.0 | 12.8 | 30 S | 33.4 | | 8.12 | 23 | 16.1 | 20 |
| 21 | 1.0 | 13.4 B | 45 S | 52.1 | | 11.4 | 25 | 24.8 | 21.0 | 7.81 | 19 S | 13.3 | 21 |
| 22 | 2.4 | 29.0 B | 102 S | 284 | | 10.3 | 21 | 18.7 | | 7.16 | 16 | 9.90 | 22 |
| 23 | 3.0 | 68.4 B | 214 S | 1 260 | | 10.8 | 20 | 18.3 | | 6.74 | 14 | 8.15 | 23 |
| 24 | 2.0 | 118 | 332 S | 3 200 | 13.0 | 10.8 | 14 S | 13.1 | | 6.80 | 13 | 7.41 | 24 |
| 25 | | 281 | 780 S | 19 800 | | 11.0 | 14 | 13.3 | 19.5 | 37.2 | 241 S | 775 | 25 |
| 26 | 4.0 | 241 | 453 S | 9 430 | 13.0 | 11.2 | 17 S | 16.5 | 18.5 | 83.7 | 247 S | 1 790 | 26 |
| 27 | | 139 | 273 S | 3 040 | | 10.7 | 15 | 13.9 | 17.5 | 85.7 | 185 S | 840 | 27 |
| 28 | | 88.4 | 180 S | 1 080 | | 10.4 | 14 | 13.5 | 18.0 | 36.5 | 97 S | 306 | 28 |
| 29 | | 38.9 | 140 S | 471 | | 8.83 | 13 | 11.0 | 18.0 | 32.6 | 84 S | 125 | 29 |
| 30 | 5.5 | 33.3 | 88 S | 187 | 16.0 | 8.40 | 11 S | 8.93 | 19.0 | 18.0 | 83 S | 62.4 | 30 |
| 31 | | | | | | 9.63 | 22 | 18.1 | | | | | 31 |
| TOTAL | | 1 935.515 | | 36 578.87 | | 300.40 | | 711.72 | | 482.81 | | 4 439.29 | TOTAL |
| MEAN | | 34.2 | | 1 280 | | 9.68 | | 23.0 | | 16.4 | | 148 | MEAN |

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 16.0 | 90 | 99.1 | | 2.87 | 22 | 5.45 | | 0.414 | 14 | 0.50 | 1 |
| 2 | 19.0 | 14.4 | 87 S | 88.5 | | 2.77 | 21 | 5.03 | | 0.412 | 13 | 0.48 | 2 |
| 3 | 19.5 | 13.4 | 82 S | 88.5 | | 2.61 | 21 | 4.74 | | 0.320 | 13 | 0.36 | 3 |
| 4 | | 13.2 | 84 | 90.2 | | 2.45 | 21 | 4.45 | | 0.373 | 12 | 0.39 | 4 |
| 5 | | 14.8 | 85 | 83.1 | | 2.40 | 21 | 4.35 | | 0.401 | 12 | 0.42 | 5 |
| 6 | 22.0 | 14.1 | 88 S | 70.7 | | 2.20 | 20 | 3.80 | | 0.408 | 11 | 0.39 | 6 |
| 7 | | 13.9 | 84 | 84.8 | | 2.02 | 20 | 3.49 | | 0.367 | 10 | 0.32 | 7 |
| 8 | | 13.0 | 80 | 88.2 | | 1.85 | 20 | 3.20 | | 0.381 | 9 | 0.30 | 8 |
| 9 | | 11.4 | 68 | 85.3 | | 1.70 | 20 | 2.84 | | 0.443 | 9 | 0.34 | 9 |
| 10 | 19.0 | 10.9 | 64 S | 61.4 | 25.0 | 1.62 | 20 S | 2.80 | 12.0 | 0.402 | 8 S | 0.28 | 10 |
| 11 | | 14.4 | 75 | 93.3 | | 1.44 | 18 | 2.24 | | 0.378 | 8 | 0.28 | 11 |
| 12 | 24.0 | 16.8 | 71 S | 103 | | 1.29 | 18 | 1.78 | | 0.353 | 8 | 0.24 | 12 |
| 13 | | 15.1 | 85 | 90.4 | | 1.15 | 14 | 1.39 | | 0.334 | 8 | 0.23 | 13 |
| 14 | 25.0 | 12.2 | 81 S | 85.6 | | 0.998 | 12 | 1.03 | | 0.310 | 8 | 0.21 | 14 |
| 15 | | 10.4 | 59 | 53.0 | 25.0 | 0.885 | 11 S | 0.84 | | 0.282 | 8 | 0.19 | 15 |
| 16 | | 8.51 | 58 | 47.7 | | 0.810 | 11 | 0.77 | | 0.281 | 8 | 0.19 | 16 |
| 17 | | 8.58 | 57 | 47.2 | | 0.785 | 11 | 0.72 | | 0.303 | 8 | 0.21 | 17 |
| 18 | | 8.88 | 55 | 42.7 | | 0.702 | 11 | 0.67 | | 0.220 | 8 | 0.15 | 18 |
| 19 | | 8.38 | 54 | 39.1 | | 0.601 | 12 | 0.62 | | 0.178 | 8 | 0.12 | 19 |
| 20 | | 8.03 | 58 | 40.2 | | 0.544 | 14 | 0.66 | | 0.155 | 8 | 0.11 | 20 |
| 21 | | 8.24 | 61 | 43.4 | 22.5 | 0.498 | 15 S | 0.64 | | 0.154 | 8 | 0.11 | 21 |
| 22 | | 8.96 | 57 | 34.3 | | 0.470 | 16 | 0.65 | 11.0 | 0.143 | 8 S | 0.10 | 22 |
| 23 | | 8.08 | 53 | 37.8 | | 0.440 | 16 | 0.61 | | 0.132 | 8 | 0.09 | 23 |
| 24 | | 8.53 | 48 | 22.9 | | 0.508 | 16 | 0.70 | | 0.122 | 8 | 0.08 | 24 |
| 25 | | 5.13 | 43 | 19.1 | | 0.537 | 16 | 0.88 | | 0.121 | 8 | 0.08 | 25 |
| 26 | 27.0 | 4.77 | 37 S | 15.2 | | 0.588 | 16 | 0.78 | | 0.103 | 8 | 0.07 | 26 |
| 27 | 25.0 | 4.20 | 16 S | 8.83 | | 0.552 | 16 | 0.73 | | 0.110 | 8 | 0.08 | 27 |
| 28 | | 3.73 | 16 | 4.83 | | 0.450 | 16 | 0.64 | | 0.114 | 7 | 0.07 | 28 |
| 29 | | 3.38 | 16 | 4.34 | | 0.538 | 16 | 0.77 | | 0.127 | 8 | 0.07 | 29 |
| 30 | | 3.37 | 22 | 6.41 | | 0.713 | 16 | 0.88 | | 0.129 | 8 S | 0.08 | 30 |
| 31 | | 3.13 | 22 | 5.85 | 24.0 | 0.888 | 16 S | 0.88 | | | | | 31 |
| TOTAL | | 304.88 | | 1 406.08 | | 37.716 | | 58.78 | | 7.897 | | 8.48 | TOTAL |
| MEAN | | 9.84 | | 45.3 | | 1.22 | | 1.90 | | 0.266 | | 0.22 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.122 | 5 | 0.05 | | | | | | | | | 1 |
| 2 | | 0.101 | 5 | 0.04 | | | | | | | | | 2 |
| 3 | | 0.083 | 5 | 0.04 | | | | | | | | | 3 |
| 4 | | 0.084 | 5 | 0.03 | | | | | | | | | 4 |
| 5 | | 0.067 | 5 | 0.03 | | | | | | | | | 5 |
| 6 | | 0.018 | 6 | 0.01 | | | | | | | | | 6 |
| 7 | | 0.019 | 7 | 0.01 | | | | | | | | | 7 |
| 8 | | 0.019 | 7 | 0.01 | | | | | | | | | 8 |
| 9 | | 0.020 | 7 | 0.01 | | | | | | | | | 9 |
| 10 | | 0.034 | 7 S | 0.02 | | | | | | | | | 10 |
| 11 | | 0.039 | 6 | 0.02 | | | | | | | | | 11 |
| 12 | | 0.383 | 6 | 0.20 | | | | | | | | | 12 |
| 13 | | 0.436 | 6 | 0.23 | | | | | | | | | 13 |
| 14 | | 0.369 | 5 | 0.15 | | | | | | | | | 14 |
| 15 | | 0.637 | 6 | 0.33 | | | | | | | | | 15 |
| 16 | | 0.813 | 6 | 0.34 | | | | | | | | | 16 |
| 17 | | 0.843 | 5 | 0.38 | | | | | | | | | 17 |
| 18 | | 0.587 | 5 | 0.25 | | | | | | | | | 18 |
| 19 | | 0.514 | 5 | 0.22 | | | | | | | | | 19 |
| 20 | | 0.448 | 5 | 0.19 | | | | | | | | | 20 |
| 21 | | 0.408 | 4 | 0.14 | | | | | | | | | 21 |
| 22 | | 0.370 | 4 | 0.13 | | | | | | | | | 22 |
| 23 | | 0.368 | 4 | 0.13 | | | | | | | | | 23 |
| 24 | | 0.410 | 4 | 0.14 | | | | | | | | | 24 |
| 25 | | 0.338 | 4 | 0.12 | | | | | | | | | 25 |
| 26 | | 0.269 | 3 | 0.07 | | | | | | | | | 26 |
| 27 | | 0.333 | 3 | 0.08 | | | | | | | | | 27 |
| 28 | | 0.708 | 3 | 0.18 | | | | | | | | | 28 |
| 29 | | 0.630 | 3 | 0.15 | | | | | | | | | 29 |
| 30 | | 0.571 | 3 | 0.15 | | | | | | | | | 30 |
| 31 | | 0.477 | 3 | 0.12 | | | | | | | | | 31 |
| TOTAL | | 10 080 | | 3.88 | | | | | | | | | TOTAL |
| MEAN | | 0.325 | | 0.13 | | | | | | | | | MEAN |

SUMMARY FOR THE MONTHS MAR TO OCT

TOTAL SUSPENDED SEDIMENT LOAD 45 301.78 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 243 | |
| MAXIMUM DAILY | 780 | 08 APR 25 |
| MINIMUM DAILY | 3 | 08 OCT 26 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 184 | |
| MAXIMUM DAILY | 19 600 | 08 APR 25 |
| MINIMUM DAILY | 0.01 | 08 OCT 05 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 18 45 N
LONG 100 00 39 W
DRAINAGE AREA 3 870 km²
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER, M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE, W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 24 | 10:00 | 125 | | 2.0 | 312 | R | 34 | 43 | 61 | 76 | 88 | 93 | 98 | 99 | 100 | | | BNW |
| APR 24 | 10:55 | 115 | M | 2.0 | 315 | K | 30 | 36 | 60 | 76 | 88 | 91 | 95 | 99 | 100 | | | BNW |
| APR 25 | 10:55 | 251 | M | 2.0 | 601 | K | 45 | 51 | 71 | 87 | 94 | 97 | 99 | 100 | | | | BNW |
| JUN 25 | 10:30 | 37.2 | M | 15.0 | 259 | K | 24 | 34 | 56 | 72 | 84 | 91 | 97 | 99 | 100 | | | BNW |

M - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

# NEW BRUNSWICK

## KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.0 | 28.5 B | 5 S | 12.3 | | 14.3 B | 10 | 12.4 | | 8.70 B | 3 | 1.74 | 1 |
| 2 | 2.0 | 25.5 B | 5 S | 13.2 | | 13.7 B | 10 | 11.8 | | 12.8 B | 7 | 7.55 | 2 |
| 3 | | 22.8 B | 5 | 9.85 | | 19.0 B | 15 | 24.8 | | 25.0 B | 85 | 140 | 3 |
| 4 | 0.1 | 20.5 B | 10 S | 28.3 | 2.0 | 42.0 B | 106 S | 382 | 0.1 | 31.0 B | 14 S | 37.5 | 4 |
| 5 | | 18.8 B | 6 | 9.75 | 0.1 | 34.0 B | 32 S | 84.0 | | 26.0 B | 7 | 15.7 | 5 |
| 6 | 0.1 | 17.5 B | 4 S | 8.05 | 0.1 | 28.0 B | 13 S | 31.4 | | 24.0 B | 6 | 10.6 | 6 |
| 7 | | 16.2 B | 5 | 7.00 | | 24.0 B | 5 | 10.4 | | 21.5 B | 8 | 14.9 | 7 |
| 8 | 0.1 | 15.2 B | 5 S | 6.57 | | 22.0 B | 10 | 19.0 | | 20.0 B | 5 | 8.64 | 8 |
| 9 | | 14.2 B | 4 | 4.91 | | 19.5 B | 10 | 16.8 | | 19.8 B | 5 | 8.55 | 9 |
| 10 | | 13.3 B | 3 | 3.46 | | 17.8 B | 6 | 9.23 | | 23.0 B | 7 | 13.9 | 10 |
| 11 | 2.0 | 19.0 B | 45 S | 73.9 | | 16.4 B | 6 | 8.60 | 0.1 | 35.0 B | 13 S | 39.3 | 11 |
| 12 | 3.0 | 30.0 B | 55 S | 145 | | 15.4 B | 5 | 6.85 | | 48.0 B | 57 | 227 | 12 |
| 13 | 2.0 | 23.0 B | 20 S | 39.7 | | 14.3 B | 8 | 9.88 | 0.1 | 110 B | 69 S | 654 | 13 |
| 14 | 1.0 | 19.5 B | 9 S | 15.2 | | 13.5 B | 9 | 10.5 | 0.1 | 92.0 B | 46 S | 382 | 14 |
| 15 | | 14.8 B | 8 | 10.2 | | 12.8 B | 6 | 6.84 | 1.5 | 86.8 | 46 S | 337 | 15 |
| 16 | | 15.2 B | 6 | 10.5 | | 12.0 B | 4 | 4.15 | 1.0 | 61.4 | 26 S | 138 | 16 |
| 17 | 0.1 | 16.0 B | 6 S | 11.1 | | 11.1 B | 4 | 3.84 | 2.0 | 47.5 | 21 S | 86.2 | 17 |
| 18 | | 14.8 B | 12 | 18.3 | | 10.7 B | 4 | 3.70 | 2.0 | 44.0 | 18 S | 68.4 | 18 |
| 19 | | 13.4 B | 31 | 35.8 | | 10.0 B | 4 | 3.46 | 3.0 | 53.8 | 21 S | 97.6 | 19 |
| 20 | | 12.5 B | 7 | 7.55 | | 9.50 B | 4 | 3.28 | 5.0 | 129 | 121 S | 1 350 | 20 |
| 21 | | 11.8 B | 8 | 8.15 | | 9.00 B | 3 | 2.33 | 3.5 | 142 | 58 S | 712 | 21 |
| 22 | | 10.8 B | 7 | 6.53 | | 8.50 B | 3 | 2.23 | 6.0 | 134 | 82 S | 949 | 22 |
| 23 | | 10.4 B | 6 | 5.39 | 0.1 | 8.23 B | 3 S | 2.13 | 3.0 | 142 | 53 S | 650 | 23 |
| 24 | | 22.0 B | 17 | 32.3 | | 7.80 B | 4 | 2.73 | 1.5 | 88.7 | 32 S | 276 | 24 |
| 25 | 0.1 | 26.0 B | 26 S | 87.7 | | 7.80 B | 3 | 1.97 | 2.0 | 89.5 | 29 S | 174 | 25 |
| 26 | 0.1 | 22.3 B | 8 S | 17.3 | | 7.40 B | 2 | 1.28 | 2.0 | 85.9 | 26 S | 126 | 26 |
| 27 | | 19.2 B | 8 | 13.3 | | 7.20 B | 3 | 1.87 | | 47.3 | 25 | 102 | 27 |
| 28 | | 17.8 B | 7 | 10.8 | | 7.00 B | 3 | 1.81 | 2.0 | 43.8 | 16 S | 86.1 | 28 |
| 29 | | 16.8 B | 7 | 10.2 | | | | | 4.0 | 57.3 | 33 S | 163 | 29 |
| 30 | | 16.0 B | 8 | 11.1 | | | | | 2.0 | 57.5 | 22 S | 109 | 30 |
| 31 | | 15.0 B | 7 | 8.07 | | | | | 2.0 | 47.1 | 13 S | 82.9 | 31 |
| TOTAL | | 560.6 | | 857.59 | | 422.93 | | 888.56 | | 1 811.10 | | 7 026.59 | TOTAL |
| MEAN | | 18.1 | | 21.2 | | 15.1 | | 24.9 | | 58.4 | | 227 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 39.6 | 15 | 51.6 | 10.0 | 84.2 | 31 S | 172 | 11.0 | 70.8 | 30 S | 184 | 1 |
| 2 | | 36.2 | 13 | 40.7 | 9.0 | 55.4 | 13 S | 62.2 | 12.0 | 53.2 | 15 S | 68.8 | 2 |
| 3 | | 33.6 | 11 | 31.8 | 11.0 | 66.9 | 69 S | 518 | 11.0 | 47.0 | 14 S | 56.9 | 3 |
| 4 | 3.0 | 36.9 | 16 S | 48.8 | 12.5 | 76.8 | 25 S | 170 | 12.0 | 46.6 | 15 S | 60.A | 4 |
| 5 | 3.0 | 61.3 | 40 S | 212 | 11.0 | 85.2 | 16 S | 90.1 | | 47.1 | 20 | 81.4 | 5 |
| 6 | 3.0 | 58.1 | 19 S | 85.4 | 10.0 | 53.3 | 11 S | 50.7 | 13.0 | 37.8 | 8 S | 29.2 | 6 |
| 7 | 4.0 | 51.8 | 19 S | 85.2 | 10.0 | 44.2 | 9 S | 34.4 | | 41.7 | 28 | 93.7 | 7 |
| 8 | | 54.3 | 21 | 98.5 | 11.0 | 38.8 | 9 S | 30.2 | 12.0 | 48.5 | 19 S | 79.6 | 8 |
| 9 | | 58.2 | 27 | 139 | 11.0 | 33.8 | 9 S | 26.4 | 12.0 | 33.8 | 11 S | 32.1 | 9 |
| 10 | | 46.9 | 17 | 68.9 | 12.0 | 30.8 | 10 S | 26.8 | | 28.7 | 7 | 16.1 | 10 |
| 11 | | 58.5 | 37 | 181 | 10.0 | 27.8 | 9 S | 21.8 | 12.0 | 23.8 | 5 S | 10.2 | 11 |
| 12 | 4.0 | 71.7 | 41 S | 284 | 10.0 | 25.5 | 7 S | 15.4 | | 21.6 | 5 | 9.33 | 12 |
| 13 | 5.0 | 58.5 | 20 S | 101 | 8.0 | 28.1 | 14 S | 31.8 | 13.0 | 19.5 | 7 S | 11.8 | 13 |
| 14 | | 48.6 | 18 | 75.8 | 9.0 | 26.4 | 19 S | 43.3 | 14.0 | 17.8 | 8 S | 12.4 | 14 |
| 15 | 8.0 | 42.3 | 13 S | 47.5 | | 23.9 | 12 | 24.4 | | 17.7 | 8 | 8.18 | 15 |
| 16 | | 38.5 | 9 | 29.8 | 11.0 | 21.7 | 7 S | 13.1 | 14.0 | 16.6 | 6 S | 7.17 | 16 |
| 17 | | 42.3 | 18 | 65.8 | | 27.7 | 22 | 52.7 | 17.0 | 14.9 | 4 S | 5.15 | 17 |
| 18 | 8.0 | 61.9 | 23 S | 103 | 8.0 | 30.4 | 12 S | 31.5 | | 13.8 | 4 | 4.77 | 18 |
| 19 | 5.0 | 49.0 | 12 S | 51.4 | | 22.8 | 9 | 17.8 | | 13.3 | 7 | 8.04 | 19 |
| 20 | 8.0 | 48.4 | 11 S | 43.1 | 11.0 | 19.6 | 14 S | 23.7 | 17.0 | 14.3 | 11 S | 13.6 | 20 |
| 21 | 7.0 | 41.3 | 10 S | 35.7 | 11.0 | 43.1 | 49 S | 182 | | 12.5 | 7 | 7.55 | 21 |
| 22 | 8.0 | 37.9 | 8 S | 26.2 | | 30.0 | 20 | 81.8 | 18.0 | 10.9 | 6 S | 4.71 | 22 |
| 23 | 8.0 | 33.6 | 8 S | 23.4 | 12.5 | 22.7 | 10 S | 19.6 | | 10.3 | 6 | 5.45 | 23 |
| 24 | 10.0 | 30.3 | 7 S | 18.3 | 11.0 | 23.2 | 7 S | 14.0 | 20.0 | 9.26 | 4 S | 3.20 | 24 |
| 25 | 9.0 | 84.5 | 50 S | 279 | | 39.3 | 44 | 149 | | 8.44 | 3 | 2.18 | 25 |
| 26 | 10 S | 124 | 109 S | 1 170 | 9.0 | 43.8 | 20 S | 75.7 | | 8.01 | 3 | 2.08 | 26 |
| 27 | 9 S | 83.1 | 44 S | 316 | 9.0 | 30.7 | 11 S | 29.2 | 18.0 | 7.88 | 3 S | 1.99 | 27 |
| 28 | 8 S | 84.1 | 24 S | 133 | 10.0 | 44.7 | 37 S | 143 | | 7.77 | 3 | 2.01 | 28 |
| 29 | 10.0 | 81.8 | 10 S | 71.3 | | 43.7 | 24 | 80.8 | 18.0 | 7.33 | 3 S | 1.90 | 29 |
| 30 | 10.0 | 47.8 | 16 S | 66.1 | 11.0 | 33.6 | 10 S | 28.0 | | 8.88 | 3 | 1.72 | 30 |
| 31 | | | | | 11.0 | 76.9 | 88 S | 574 | | | | | 31 |
| TOTAL | | 1 897.1 | | 3 954.3 | | 1 233.1 | | 2 813.4 | | 714.82 | | 825.79 | TOTAL |
| MEAN | | 61.8 | | 132 | | 39.8 | | 90.8 | | 23.8 | | 27.6 | MEAN |

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18.0 | 6.76 | 3 S | 1.75 | 18.0 | 4.89 | 6 S | 2.63 | 16.0 | 6.86 | 17 S | 13.2 | 1 |
| 2 | | 6.36 | 4 | 3.20 | | 10.2 | 24 | 21.2 | 15.0 | 6.12 | 8 S | 6.31 | 2 |
| 3 | | 10.1 | 21 | 18.3 | 18.0 | 14.8 | 23 S | 29.8 | | 6.09 | 7 | 3.68 | 3 |
| 4 | 17.0 | 6.87 | 11 S | 6.43 | | 8.41 | 14 | 11.4 | | 5.30 | 5 | 2.29 | 4 |
| 5 | | 7.21 | 7 | 4.36 | 18.0 | 12.1 | 18 S | 18.8 | 18.0 | 4.82 | 14 S | 5.83 | 5 |
| 6 | 21.0 | 10.3 | 23 S | 20.5 | | 6.82 | 13 | 9.51 | | | | | |
| 7 | | 20.3 | 35 | 61.4 | | 9.72 | 15 | 12.8 | 21.0 | 4.36 | 9 S | 3.39 | 7 |
| 8 | 17.0 | 11.5 | 14 S | 13.9 | 19.0 | 9.67 | 16 S | 13.5 | | 4.03 | 7 | 2.44 | 8 |
| 9 | | 8.49 | 8 | 5.80 | | 7.22 | 11 | 8.86 | 17.0 | 3.83 | 7 S | 2.32 | 9 |
| 10 | | 7.99 | 8 | 6.14 | 19.0 | 10.1 | 23 S | 20.1 | | 4.08 | 7 | 2.48 | 10 |
| 11 | 18.0 | 6.84 | 5 S | 3.02 | | 6.45 | 13 | 8.78 | | | | | |
| 12 | | 8.10 | 5 | 2.84 | 17.0 | 10.5 | 19 S | 17.4 | 18.0 | 4.42 | 5 S | 1.81 | 12 |
| 13 | 18.0 | 9.50 | 7 S | 3.33 | 14.0 | 22.2 | 22 S | 42.2 | | 3.86 | 6 | 2.08 | 13 |
| 14 | | 8.49 | 6 | 3.79 | | 12.8 | 8 | 8.85 | 18.0 | 3.84 | 6 S | 1.89 | 14 |
| 15 | 17.0 | 9.74 | 6 S | 3.97 | 17.0 | 9.06 | 8 S | 6.71 | | 3.84 | 7 | 2.14 | 15 |
| 16 | | 8.07 | 6 | 4.20 | | 7.85 | 5 | 3.39 | 14.0 | 3.41 | 7 S | 2.06 | 16 |
| 17 | | 8.86 | 6 | 4.60 | 18.0 | 7.09 | 4 S | 2.45 | | 3.33 | 7 | 2.01 | 17 |
| 18 | 18.0 | 9.75 | 6 S | 3.87 | | 8.57 | 8 | 5.92 | 15.0 | 4.48 | 10 S | 3.84 | 18 |
| 19 | | 4.81 | 8 | 3.39 | 18.0 | 18.5 | 30 S | 48.0 | | 4.92 | 10 | 4.25 | 19 |
| 20 | 18.0 | 4.55 | 8 S | 3.14 | | 16.8 | 24 | 34.4 | 14.5 | 4.23 | 8 S | 2.19 | 20 |
| 21 | | 4.86 | 8 | 3.36 | | 9.87 | 13 | 11.2 | | 3.78 | 8 | 2.82 | 21 |
| 22 | 17.0 | 7.27 | 18 S | 10.1 | 16.0 | 7.70 | 9 S | 5.98 | 13.0 | 4.43 | 13 S | 4.88 | 22 |
| 23 | 16.0 | 22.8 | 48 S | 94.8 | | 7.35 | 7 | 4.36 | 16.0 | 12.5 | 30 S | 32.7 | 23 |
| 24 | | 16.6 | 30 | 28.7 | 15.0 | 8.82 | 5 S | 3.86 | 15.0 | 6.88 | 11 S | 6.55 | 24 |
| 25 | 17.0 | 9.14 | 11 S | 6.88 | | 8.07 | 8 | 3.15 | 14.0 | 5.20 | 8 S | 4.04 | 25 |
| 26 | | 7.23 | 10 | 6.25 | 16.0 | 5.74 | 7 S | 3.47 | 14.0 | 4.80 | 8 S | 2.33 | 26 |
| 27 | 17.0 | 7.83 | 11 S | 7.54 | | 8.34 | 7 | 3.23 | 13.0 | 4.08 | 8 S | 2.10 | 27 |
| 28 | | 8.77 | 11 | 6.43 | | 5.40 | 6 | 2.80 | | 3.85 | 7 | 2.33 | 28 |
| 29 | 18.0 | 6.85 | 10 S | 4.88 | 17.0 | 5.39 | 8 S | 2.78 | 15.0 | 3.68 | 8 S | 2.85 | 29 |
| 30 | | 8.17 | 8 | 4.02 | | 5.15 | 5 | 2.23 | 20.0 | 3.84 | 18 S | 5.61 | 30 |
| 31 | | 8.24 | 7 | 3.17 | 18.0 | 8.14 | 3 S | 1.33 | | | | | 31 |
| TOTAL | | 264.31 | | 355.37 | | 268.55 | | 386.01 | | 147.03 | | 135.75 | TOTAL |
| MEAN | | 8.20 | | 11.5 | | 8.31 | | 11.8 | | 4.90 | | 4.53 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.48 | 26 | 7.82 | | 3.98 | 5 | 1.72 | 1.0 | 39.6 | 18 S | 54.7 | 1 |
| 2 | 19.0 | 3.38 | 27 S | 7.81 | 5.0 | 4.05 | 6 S | 2.60 | 0.1 | 30.1 | 8 S | 20.8 | 2 |
| 3 | | 3.26 | 13 | 3.60 | | 4.10 | 8 | 2.13 | 1.0 | 25.3 | 7 S | 15.3 | 3 |
| 4 | 17.0 | 3.33 | 5 S | 1.44 | 5.0 | 4.32 | 8 S | 3.24 | | 20.6 | 8 | 10.7 | 4 |
| 5 | 14.0 | 7.15 | 20 S | 12.4 | | 4.93 | 8 | 3.41 | 0.1 | 19.5 B | 8 S | 10.1 | 5 |
| 6 | 15.5 | 15.9 | 39 S | 53.8 | | 9.28 | 21 | 16.8 | | 18.5 B | 7 | 11.2 | 6 |
| 7 | 12.0 | 11.0 | 22 S | 30.9 | 5.0 | 21.9 | 46 S | 90.8 | 0.0 | 49.9 | 103 S | 444 | 7 |
| 8 | 12.0 | 8.74 | 12 S | 6.99 | 5.0 | 14.9 | 21 S | 27.0 | 1.0 | 50.1 | 34 S | 147 | 8 |
| 9 | 12.0 | 5.33 | 6 S | 4.14 | 5.0 | 10.1 | 13 S | 11.3 | 0.1 | 34.2 | 34 S | 100 | 9 |
| 10 | 8.0 | 4.81 | 7 S | 2.78 | | 7.86 | 10 | 8.78 | 0.1 | 35.0 B | 13 S | 28.1 | 10 |
| 11 | | 4.28 | 6 S | 2.21 | 2.0 | 11.9 | 27 S | 27.8 | - | 21.0 B | 10 | 18.1 | 11 |
| 12 | 7.0 | 3.98 | 5 S | 1.72 | 5.0 | 18.0 | 29 S | 47.6 | 0.1 | 19.0 B | 14 S | 23.0 | 12 |
| 13 | | 4.14 | 7 | 2.50 | | 15.8 | 13 | 17.5 | 5.0 | 45.3 | 53 S | 207 | 13 |
| 14 | 10.5 | 14.2 | 49 S | 60.1 | 1.0 | 11.2 | 6 S | 5.61 | 2.5 | 177 | 144 S | 2 200 | 14 |
| 15 | 11.5 | 14.8 | 30 S | 38.4 | | 8.51 | 4 | 3.29 | 6.0 | 173 | 57 S | 852 | 15 |
| 16 | 11.0 | 8.98 | 13 S | 10.1 | 0.1 | 8.88 | 6 S | 4.60 | 5.0 | 135 | 36 S | 420 | 16 |
| 17 | 7.0 | 7.18 | 10 S | 6.21 | 5.0 | 27.7 | 121 S | 290 | 1.0 | 98.8 | 22 S | 188 | 17 |
| 18 | | 8.30 | 9 | 4.80 | 4.0 | 31.3 | 48 S | 130 | | 72.0 | 13 | 80.8 | 18 |
| 19 | 7.0 | 5.88 | 7 S | 3.44 | 2.0 | 25.1 | 11 S | 23.8 | 0.1 | 46.0 B | 8 S | 37.3 | 19 |
| 20 | | 5.40 | 7 | 3.27 | | 18.3 | 5 | 7.91 | | 40.0 B | 8 | 27.6 | 20 |
| 21 | 8.0 | 5.11 | 6 S | 2.85 | 1.0 | 15.4 | 6 S | 7.98 | | 36.0 B | 7 | 31.8 | 21 |
| 22 | | 4.66 | 5 | 2.09 | 2.0 | 28.6 | 57 S | 142 | | 31.0 B | 7 | 18.7 | 22 |
| 23 | | 4.77 | 3 | 1.24 | 1.0 | 30.4 | 23 S | 60.4 | | 28.0 B | 6 S | 19.4 | 23 |
| 24 | 7.0 | 4.82 | 3 S | 1.20 | 2.0 | 24.3 | 12 S | 25.1 | | 25.0 B | 8 | 17.3 | 24 |
| 25 | | 4.36 | 5 | 1.88 | 7.5 | 41.9 | 89 S | 323 | | 22.0 B | 8 | 15.2 | 25 |
| 26 | 5.0 | 4.38 | 8 S | 3.01 | 3.5 | 78.8 | 106 S | 722 | | 21.0 B | 8 | 18.3 | 26 |
| 27 | | 4.85 | 5 | 2.01 | 2.0 | 51.4 | 31 S | 138 | | 19.0 B | 8 | 13.1 | 27 |
| 28 | 6.0 | 4.64 | 3 S | 1.18 | 2.0 | 36.5 | 15 S | 47.3 | | 18.0 B | 10 | 15.8 | 28 |
| 29 | | 4.35 | 3 | 1.13 | 1.0 | 31.3 | 14 S | 37.9 | 3.0 | 30.0 B | 34 S | 88.1 | 29 |
| 30 | | 4.22 | 3 | 1.09 | 2.0 | 48.4 | 40 S | 171 | 1.0 | 28.0 B | 36 S | 82.9 | 30 |
| 31 | 2.0 | 4.15 | 4 S | 1.43 | | | | | | 24.0 B | 9 | 18.7 | 31 |
| TOTAL | | 189.24 | | 273.85 | | 852.02 | | 2 387.08 | | 1 422.0 | | 5 202.9 | TOTAL |
| MEAN | | 6.10 | | 8.82 | | 21.7 | | 79.9 | | 46.5 | | 168 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 24 706.87 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 31 | |
| MAXIMUM DAILY | 144 | ON DEC 14 |
| MINIMUM DAILY | 2 | ON FEB 28 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 67.7 | |
| MAXIMUM DAILY | 2 200 | ON DEC 14 |
| MINIMUM DAILY | 1.08 | ON OCT 30 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 42 07 N
LONG 65 36 08 W
DRAINAGE AREA 1 100 km²
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.056 | | | | 0.031 E | | | | 0.028 | | | 1 |
| 2 | | 0.048 | | | | 0.029 E | | | | 0.043 | | | 2 |
| 3 | | 0.035 | | | | 0.103 | | | | 0.084 | | | 3 |
| 4 | | 0.032 E | | | | 0.484 | | | | 0.050 | | | 4 |
| 5 | | 0.037 E | | | | 0.266 | | | | 0.037 | | | 5 |
| 6 | | 0.035 E | | | | 0.138 | | | | 0.032 | | | 6 |
| 7 | | 0.032 E | | | | 0.092 | | | | 0.032 | | | 7 |
| 8 | | 0.030 E | | | | 0.075 | | | | 0.028 | | | 8 |
| 9 | | 0.028 E | | | | 0.068 | | | | 0.027 | | | 9 |
| 10 | | 0.026 E | | | | 0.060 | | | | 0.027 | | | 10 |
| 11 | | 0.305 | | | | 0.054 | | | | 0.028 | | | 11 |
| 12 | | 0.316 | | | | 0.054 | | | | 0.078 | | | 12 |
| 13 | | 0.110 | | | | 0.048 | | | | 0.162 | | | 13 |
| 14 | | 0.067 | | | | 0.045 | | | | 0.101 | | | 14 |
| 15 | | 0.058 | | | | 0.045 | | | | 0.068 | | | 15 |
| 16 | | 0.050 | | | | 0.044 | | | | 0.053 | | | 16 |
| 17 | | 0.053 | | | | 0.037 | | | | 0.050 | | | 17 |
| 18 | | 0.050 | | | | 0.035 | | | | 0.052 | | | 18 |
| 19 | | 0.048 | | | | 0.034 | | | | 0.068 | | | 19 |
| 20 | | 0.040 E | | | | 0.032 | | | | 0.490 E | | | 20 |
| 21 | | 0.038 E | | | | 0.031 | | | | 0.481 | | | 21 |
| 22 | | 0.038 E | | | | 0.030 | | | | 0.840 | | | 22 |
| 23 | | 0.108 | | | | 0.031 | | | | 0.492 | | | 23 |
| 24 | | 0.220 | | | | 0.030 | | | | 0.233 | | | 24 |
| 25 | | 0.254 | | | | 0.029 | | | | 0.164 | | | 25 |
| 26 | | 0.068 | | | | 0.029 | | | | 0.134 | | | 26 |
| 27 | | 0.049 | | | | 0.028 | | | | 0.117 | | | 27 |
| 28 | | 0.043 E | | | | 0.028 | | | | 0.110 | | | 28 |
| 29 | | 0.038 E | | | | | | | | 0.260 | | | 29 |
| 30 | | 0.035 E | | | | | | | | 0.185 | | | 30 |
| 31 | | 0.032 E | | | | | | | | 0.104 | | | 31 |
| TOTAL | | 2.396 | | | | 1.977 | | | | 4.818 | | | TOTAL |
| MEAN | | 0.077 | | | | 0.070 | | | | 0.148 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.103 | 2 | 0.02 | | 0.215 | 2 | 0.04 | | 0.487 | 2 | 0.08 | 1 |
| 2 | | 0.103 | 2 | 0.02 | | 0.234 | 3 | 0.06 | | 0.284 | 2 | 0.05 | 2 |
| 3 | | 0.107 | 3 | 0.02 | | 0.407 | 3 | 0.11 | | 0.210 | 2 | 0.04 | 3 |
| 4 | | 0.170 | 5 | 0.07 | | 0.295 | 2 | 0.05 | | 0.160 | 1 | 0.02 | 4 |
| 5 | | 0.181 | 2 | 0.03 | 5.5 | 0.295 | 2 E | 0.05 | | 0.167 | 1 | 0.01 | 5 |
| 6 | | 0.229 | 3 | 0.02 | | 0.216 | 2 | 0.04 | | 0.138 | 1 | 0.01 | 6 |
| 7 | | 0.246 | 3 | 0.06 | | 0.187 | 2 | 0.03 | | 0.155 | 2 | 0.03 | 7 |
| 8 | | 0.283 | 1 | 0.03 | | 0.168 | 2 | 0.03 | | 0.133 | 1 | 0.01 | 8 |
| 9 | | 0.276 | 2 | 0.05 | | 0.165 | 2 | 0.03 | 10.0 | 0.103 | 1 E | 0.01 | 9 |
| 10 | | 0.228 | 1 | 0.02 | | 0.161 | 2 | 0.03 | | 0.088 | 1 | 0.01 | 10 |
| 11 | 0.5 | 0.320 | 3 E | 0.08 | | 0.137 | 2 | 0.02 | | 0.073 | 1 | 0.01 | 11 |
| 12 | | 0.433 | 2 | 0.07 | 5.5 | 0.119 | 2 E | 0.02 | | 0.070 | 1 | 0.01 | 12 |
| 13 | | 0.283 | 2 | 0.06 | | 0.142 | 3 E | 0.04 | | 0.071 | 1 | 0.01 | 13 |
| 14 | | 0.198 | 2 | 0.03 | | 0.144 | 2 | 0.02 | | 0.07. | 1 | 0.01 | 14 |
| 15 | 0.5 | 0.181 | 1 E | 0.01 | | 0.109 | 2 | 0.02 | | 0.089 | 1 | 0.01 | 15 |
| 16 | | 0.189 | 2 | 0.03 | | 0.111 | 2 | 0.02 | | 0.084 | 1 | 0 | 16 |
| 17 | | 0.452 | 33 E | 1.25 | | 0.088 | 1 | 0.01 | | 0.083 | 1 | 0 | 17 |
| 18 | | 1.35 | 24 | 2.80 | | 0.080 | 1 | 0.01 | | 0.067 | 1 | 0 | 18 |
| 19 | | 0.525 | 3 | 0.14 | | 0.072 | 1 | 0.01 | | 0.170 | 17 E | 0.25 | 19 |
| 20 | | 0.412 | 2 | 0.07 | | 0.121 | 6 E | 0.06 | | 0.073 | 3 | 0.02 | 20 |
| 21 | | 0.341 | 2 | 0.06 | | 0.208 | 3 | 0.05 | | 0.048 | 2 | 0.01 | 21 |
| 22 | 2.0 | 0.279 | 1 E | 0.02 | | 0.112 | 2 | 0.02 | | 0.040 | 2 | 0.01 | 22 |
| 23 | | 0.217 | 1 | 0.02 | | 0.081 | 1 | 0.01 | | 0.038 | 2 | 0.01 | 23 |
| 24 | | 0.199 | 1 | 0.02 | | 0.117 | 3 | 0.03 | | 0.031 | 2 | 0.01 | 24 |
| 25 | | 0.864 | 9 E | 0.82 | | 0.213 | 9 | 0.17 | | 0.030 | 2 | 0.01 | 25 |
| 26 | | 0.585 | 3 | 0.15 | | 0.181 | 2 | 0.03 | | 0.027 | 2 | 0 | 26 |
| 27 | | 0.400 | 2 | 0.07 | 7.0 | 0.133 | 1 E | 0.01 | | 0.029 | 2 | 0.01 | 27 |
| 28 | | 0.311 | 2 | 0.05 | | 0.368 | 6 | 0.23 | | 0.028 | 2 | 0 | 28 |
| 29 | | 0.260 | 2 | 0.04 | | 0.224 | 1 E | 0.02 | | 0.025 | 1 | 0 | 29 |
| 30 | | 0.213 | 2 | 0.04 | | 0.227 | 2 | 0.04 | | 0.023 | 2 | 0 | 30 |
| 31 | | | | | | 0.844 | 15 E | 1.22 | | | | | 31 |
| TOTAL | | 9.868 | | 5.86 | | 8.282 | | 2.54 | | 2.993 | | 0.81 | TOTAL |
| MEAN | | 0.333 | | 0.20 | | 0.267 | | 0.08 | | 0.100 | | 0.02 | MEAN |

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.021 | 2 | 0 | | 0.027 | 2 | 0 | | 0.043 | 2 | 0.01 | 1 |
| 2 | | 0.022 | 2 | 0 | | 0.027 | 2 | 0 | | 0.038 | 2 | 0.01 | 2 |
| 3 | | 0.026 | 2 | 0 | | 0.025 | 2 | 0 | | 0.038 | 2 | 0 | 3 |
| 4 | 15.5 | 0.022 | 2 S | 0 | | 0.018 | 2 | 0 | | 0.022 | 2 | 0 | 4 |
| 5 | | 0.018 | 1 | 0 | | 0.018 | 2 | 0 | | 0.017 | 2 | 0 | 5 |
| 6 | | 0.090 | 7 | 0.05 | | 0.015 | 2 | 0 | | 0.014 | 2 | 0 | 6 |
| 7 | | 0.044 | 2 | 0.01 | | 0.020 | 2 | 0 | | 0.022 | 3 | 0.01 | 7 |
| 8 | | 0.024 | 2 | 0 | | 0.014 | 2 | 0 | | 0.027 | 2 | 0 | 8 |
| 9 | | 0.025 | 2 | 0 | | 0.034 | 3 | 0.01 | | 0.018 | 2 | 0 | 9 |
| 10 | | 0.019 | 2 | 0 | | 0.020 | 2 | 0 | | 0.025 | 2 | 0 | 10 |
| 11 | | 0.018 | 2 | 0 | | 0.015 | 2 | 0 | | 0.034 | 3 | 0.01 | 11 |
| 12 | | 0.015 | 1 | 0 | | 0.018 | 2 | 0 | | 0.032 | 2 | 0.01 | 12 |
| 13 | | 0.016 | 2 | 0 | | 0.015 | 3 | 0 | | 0.018 | 2 | 0 | 13 |
| 14 | | 0.016 | 2 | 0 | | 0.014 | 2 | 0 | | 0.015 | 1 | 0 | 14 |
| 15 | 14.0 | 0.121 | 10 S | 0.30 | | 0.011 | 2 | 0 | | 0.012 | 1 | 0 | 15 |
| 16 | | 0.284 | 11 | 0.25 | | 0.010 | 2 | 0 | | 0.011 | 1 | 0 | 16 |
| 17 | | 0.069 | 3 | 0.02 | | 0.009 | 2 | 0 | | 0.012 | 1 | 0 | 17 |
| 18 | | 0.030 | 2 | 0.01 | | 0.012 | 2 | 0 | | 0.049 | 3 | 0.01 | 18 |
| 19 | | 0.021 | 2 | 0 | | 0.032 | 3 | 0.01 | | 0.026 | 2 | 0 | 19 |
| 20 | 13.0 | 0.023 | 1 S | 0 | | 0.017 | 2 | 0 | | 0.023 | 2 | 0 | 20 |
| 21 | | 0.031 | 1 | 0 | | 0.012 | 2 | 0 | | 0.018 | 1 | 0 | 21 |
| 22 | | 0.133 | 8 | 0.08 | | 0.010 | 2 | 0 | | 0.133 | 13 S | 0.15 | 22 |
| 23 | | 0.043 | 2 | 0.01 | 15.5 | 0.010 | 2 S | 0 | | 0.089 | 3 | 0.03 | 23 |
| 24 | | 0.026 | 2 | 0 | | 0.063 | 2 | 0 | | 0.048 | 2 | 0.01 | 24 |
| 25 | | 0.034 | 3 | 0.01 | | 0.009 | 2 | 0 | | 0.034 | 2 | 0.01 | 25 |
| 26 | 14.0 | 0.042 | 2 S | 0.01 | | 0.008 | 2 | 0 | 7.0 | 0.032 | 1 S | 0 | 26 |
| 27 | 12.0 | 0.023 | 2 S | 0 | | 0.084 | 11 S | 0.05 | | 0.028 | 1 | 0 | 27 |
| 28 | 12.0 | 0.020 | 2 S | 0 | | 0.031 | 3 | 0.01 | | 0.028 | 1 | 0 | 28 |
| 29 | | 0.017 | 2 | 0 | | 0.027 | 10 | 0.06 | | 0.025 | 1 | 0 | 29 |
| 30 | | 0.078 | 8 S | 0.04 | | 0.027 | 2 | 0.01 | | 0.024 | 1 | 0 | 30 |
| 31 | | 0.047 | 2 | 0.01 | | 0.041 | 3 | 0.01 | | | | | 31 |
| TOTAL | | 1.383 | | 0.71 | | 0.877 | | 0.18 | | 0.944 | | 0.28 | TOTAL |
| MEAN | | 0.045 | | 0.02 | | 0.022 | | 0.01 | | 0.031 | | 0.01 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.033 | 1 | 0 | | 0.027 | | | | 0.185 | | | 1 |
| 2 | | 0.032 | 1 | 0 | | 0.024 | | | | 0.142 | | | 2 |
| 3 | | 0.032 | 1 | 0 | | 0.026 | | | | 0.123 | | | 3 |
| 4 | | 0.020 | 1 | 0 | | 0.101 | | | | 0.105 | | | 4 |
| 5 | | 0.161 | 5 S | 0.07 | | 0.057 | | | | 0.088 | | | 5 |
| 6 | | 0.148 | 3 | 0.04 | | 0.184 | | | | 0.081 | | | 6 |
| 7 | | 0.070 | 2 | 0.01 | | 0.254 | | | | 0.438 | | | 7 |
| 8 | | 0.047 | 2 | 0.01 | | 0.152 | | | | 0.260 S | | | 8 |
| 9 | | 0.035 | 1 | 0 | | 0.101 | | | | 0.440 S | | | 9 |
| 10 | | 0.044 | 1 | 0 | | 0.073 | | | | 0.300 S | | | 10 |
| 11 | | 0.039 | 1 | 0 | | 0.192 | | | | 0.280 S | | | 11 |
| 12 | | 0.036 | 1 | 0 | | 0.212 | | | | 0.280 S | | | 12 |
| 13 | | 0.058 | 2 | 0.01 | | 0.171 | | | | 0.490 S | | | 13 |
| 14 | | 0.077 | 1 | 0.01 | | 0.108 | | | | 0.410 S | | | 14 |
| 15 | | 0.057 | 1 | 0 | | 0.087 | | | | 0.340 S | | | 15 |
| 16 | | 0.046 | 1 | 0 | | 0.088 | | | | 0.280 S | | | 16 |
| 17 | | 0.040 | 1 | 0 | | 0.202 | | | | 0.253 S | | | 17 |
| 18 | | 0.038 | 1 | 0 | | 0.198 | | | | 0.200 S | | | 18 |
| 19 | | 0.036 | 1 | 0 | | 0.134 | | | | 0.185 S | | | 19 |
| 20 | | 0.033 | 1 | 0 | | 0.101 | | | | 0.187 S | | | 20 |
| 21 | | 0.030 | 1 | 0 | | 0.091 | | | | 0.155 S | | | 21 |
| 22 | | 0.030 | 1 | 0 | | 0.132 | | | | 0.142 S | | | 22 |
| 23 | | 0.030 | 1 | 0 | | 0.123 | | | | 0.130 S | | | 23 |
| 24 | | 0.028 | 1 | 0 | | 0.104 | | | | 0.120 S | | | 24 |
| 25 | | 0.030 | 1 | 0 | | 1.33 | | | | 0.108 S | | | 25 |
| 26 | | 0.028 | 1 | 0 | | 1.30 | | | | 0.094 S | | | 26 |
| 27 | | 0.028 | 1 | 0 | | 0.488 | | | | 0.088 S | | | 27 |
| 28 | | 0.028 | 1 | 0 | | 0.277 | | | | 0.078 S | | | 28 |
| 29 | | 0.029 | 1 | 0 | | 0.233 | | | | 0.108 S | | | 29 |
| 30 | | 0.028 | 1 | 0 | | 0.209 | | | | 0.088 S | | | 30 |
| 31 | 3.0 | 0.027 | 1 S | 0 | | | | | | 0.077 S | | | 31 |
| TOTAL | | 1.390 | | 0.15 | | 5.719 | | | | 5.311 | | | TOTAL |
| MEAN | | 0.045 | | 0 | | 0.224 | | | | 0.304 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 18 38 N
LONG 67 01 17 W
DRAINAGE AREA 3.89 $km^2$
NATURAL FLOW

I - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PETITCODIAC RIVER NEAR PETITCODIAC - STATION NO. 01BU001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.0 | 3.70 B | 12 S | 3.84 | | 2.80 B | 8 | 1.94 | | 1.70 B | 8 | 0.88 | 1 |
| 2 | | 3.30 B | 12 | 3.32 | | 2.72 B | 8 | 2.12 | | 4.00 B | 8 | 3.11 | 2 |
| 3 | | 2.85 B | 12 | 2.85 | | 3.00 B | 15 | 5.91 | | 7.40 B | 68 | 58.3 | 3 |
| 4 | | 2.60 B | 12 | 2.70 | 0.1 | 4.30 B | 90 S | 33.4 | | 8.70 B | 45 | 25.6 | 4 |
| 5 | | 2.35 B | 13 | 2.87 | 0.1 | 5.15 B | 70 S | 31.1 | 0.1 | 8.20 B | 15 S | 8.57 | 5 |
| 6 | | 2.35 B | 13 | 2.53 | 0.1 | 4.30 B | 33 S | 12.3 | | 5.70 B | 11 | 5.42 | 6 |
| 7 | | 2.12 B | 13 | 2.38 | | 3.80 B | 28 | 9.43 | | 5.40 B | 12 | 5.80 | 7 |
| 8 | 0.1 | 2.02 B | 14 S | 2.44 | | 3.55 B | 20 | 6.13 | | 5.10 B | 11 | 4.85 | 8 |
| 9 | | 1.92 B | 13 | 2.16 | | 3.21 B | 17 | 4.71 | | 4.35 B | 12 | 5.13 | 9 |
| 10 | | 1.86 B | 12 | 1.83 | | 3.00 B | 12 | 3.11 | | 4.65 B | 11 | 4.84 | 10 |
| 11 | | 4.00 B | 20 | 6.91 | | 2.75 B | 8 | 1.90 | | 4.80 B | 13 | 5.39 | 11 |
| 12 | | 7.00 B | 16 | 10.5 | 0.1 | 2.55 B | 9 S | 1.98 | 0.1 | 8.00 B | 15 S | 8.29 | 12 |
| 13 | | 8.10 B | 14 | 7.38 | | 2.38 B | 8 | 1.85 | | 11.0 B | 87 | 82.2 | 13 |
| 14 | | 5.30 B | 14 | 5.41 | | 2.20 B | 8 | 1.53 | | 24.0 B | 38 | 80.8 | 14 |
| 15 | 0.1 | 4.70 B | 14 S | 5.89 | | 2.05 B | 8 | 1.69 | | 22.2 B | 26 | 49.9 | 15 |
| 16 | | 4.35 B | 14 | 5.28 | | 1.85 B | 8 | 1.38 | | 20.5 B | 22 | 39.0 | 16 |
| 17 | | 4.80 B | 15 | 6.36 | | 1.62 B | 8 | 1.25 | | 18.5 B | 16 | 28.2 | 17 |
| 18 | | 5.20 B | 13 | 5.84 | | 1.70 B | 7 | 1.03 | | 17.5 B | 15 | 24.7 | 18 |
| 19 | | 4.50 B | 13 | 5.05 | 0.1 | 1.80 B | 7 S | 0.97 | 0.1 | 18.5 B | 25 S | 45.5 | 19 |
| 20 | | 4.02 B | 13 | 4.52 | | 1.82 B | 8 | 1.05 | | 24.0 B | 87 | 139 | 20 |
| 21 | | 3.70 B | 13 | 4.18 | | 1.65 B | 7 | 0.88 | | 48.0 B | 23 | 95.4 | 21 |
| 22 | 0.1 | 3.60 B | 12 S | 3.83 | | 1.36 B | 8 | 0.85 | | 89.5 | 32 | 192 | 22 |
| 23 | | 3.25 B | 10 | 2.81 | | 1.32 B | 7 | 0.80 | | 86.1 | 10 | 86.2 | 23 |
| 24 | | 4.60 B | 21 | 8.71 | | 1.35 B | 8 | 0.85 | | 37.4 | 5 | 16.3 | 24 |
| 25 | | 8.00 B | 87 | 28.5 | | 1.22 B | 8 | 0.84 | | 19.4 | 23 | 36.8 | 25 |
| 26 | | 5.00 B | 37 | 15.1 | 0.1 | 1.19 B | 7 S | 0.72 | 0.1 | 12.5 | 23 S | 25.0 | 26 |
| 27 | | 4.05 B | 25 | 8.83 | | 1.17 B | 7 | 0.71 | | 10.1 | 13 | 11.3 | 27 |
| 28 | | 3.70 B | 14 | 4.48 | | 1.14 B | 8 | 0.89 | | 8.62 | 11 | 8.36 | 28 |
| 29 | 0.1 | 3.30 B | 8 S | 2.28 | | | | | | 11.3 | 12 | 11.7 | 29 |
| 30 | | 3.05 B | 8 | 2.11 | | | | | | 14.4 | 12 | 18.3 | 30 |
| 31 | | 2.90 B | 8 | 2.00 | | | | | | 11.0 | 11 | 10.5 | 31 |
| TOTAL | | 118.25 | | 174.84 | | 67.17 | | 130.80 | | 528.05 | | 1 115.16 | TOTAL |
| MEAN | | 3.81 | | 5.64 | | 2.40 | | 4.67 | | 17.0 | | 36.0 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 8.60 | 11 | 8.36 | 10.0 | 11.0 | 29 S | 27.6 | 11.5 | 28.1 | 42 S | 91.1 | 1 |
| 2 | 0.1 | 7.55 | 11 S | 7.19 | 10.0 | 10.2 | 21 S | 18.5 | 12.0 | 18.4 | 23 S | 36.6 | 2 |
| 3 | | 8.50 | 11 | 8.27 | 11.0 | 28.5 | 79 S | 201 | | 15.4 | 18 | 25.3 | 3 |
| 4 | | 7.85 | 12 | 8.14 | 10.0 | 30.7 | 87 S | 176 | 12.0 | 13.5 | 15 S | 17.5 | 4 |
| 5 | | 21.6 | 31 | 57.9 | | 10.3 | 21 | 35.0 | | 13.8 | 14 | 16.7 | 5 |
| 6 | | 21.0 | 13 | 23.6 | | 12.3 | 11 | 11.7 | | 10.5 | 11 | 9.88 | 6 |
| 7 | | 16.4 | 11 | 17.5 | 9.0 | 9.26 | 9 S | 7.30 | | 17.8 | 23 | 35.6 | 7 |
| 8 | | 19.5 | 15 | 26.3 | | 7.85 | 10 | 6.61 | | 21.9 | 22 | 41.6 | 8 |
| 9 | 1.0 | 18.8 | 32 S | 85.0 | | 8.28 | 10 | 6.41 | | 12.4 | 11 | 11.8 | 9 |
| 10 | 1.0 | 16.9 | 20 S | 42.3 | | 8.43 | 11 | 8.16 | | 7.83 | 8 | 5.48 | 10 |
| 11 | | 14.7 | 28 | 33.0 | | 4.77 | 11 | 4.63 | 12.0 | 8.28 | 8 S | 4.33 | 11 |
| 12 | | 17.3 | 28 | 38.8 | | 4.42 | 11 | 4.20 | | 5.62 | 8 | 4.29 | 12 |
| 13 | | 15.3 | 30 | 38.4 | | 5.24 | 12 | 5.43 | | 4.78 | 8 | 3.31 | 13 |
| 14 | | 11.6 | 19 | 15.3 | 11.0 | 5.88 | 7 S | 3.44 | | 3.78 | 7 | 2.29 | 14 |
| 15 | | 9.05 | 12 | 10.0 | | 5.01 | 7 | 3.03 | | 3.65 | 8 | 2.62 | 15 |
| 16 | 1.0 | 8.04 | 8 S | 7.03 | | 4.40 | 8 | 3.26 | | 3.73 | 7 | 2.35 | 16 |
| 17 | | 8.05 | 8 | 7.75 | | 7.86 | 22 | 14.8 | | 3.15 | 8 | 1.62 | 17 |
| 18 | | 14.5 | 31 | 28.3 | | 9.00 | 9 | 7.07 | 15.0 | 2.78 | 5 S | 1.20 | 18 |
| 19 | | 14.0 | 13 | 15.7 | | 8.56 | 8 | 5.12 | | 2.94 | 8 | 1.62 | 19 |
| 20 | | 13.6 | 12 | 13.1 | | 8.28 | 10 | 6.86 | | 5.19 | 11 | 4.83 | 20 |
| 21 | | 11.7 | 12 | 12.1 | 10.0 | 8.38 | 58 S | 45.2 | | 4.36 | 8 | 3.03 | 21 |
| 22 | | 8.50 | 8 | 7.35 | 12.0 | 7.77 | 13 S | 8.73 | | 3.03 | 8 | 2.35 | 22 |
| 23 | 2.0 | 8.17 | 8 S | 6.85 | | 6.84 | 10 | 5.13 | | 3.40 | 8 | 1.87 | 23 |
| 24 | | 8.58 | 7 | 4.21 | | 4.07 | 10 | 4.25 | | 1.98 | 9 | 1.64 | 24 |
| 25 | 3.0 | 8.48 | 14 S | 10.3 | | 14.6 | 38 | 49.8 | 18.0 | 1.80 | 7 S | 1.09 | 25 |
| 26 | 10.0 | 13.9 | 34 S | 37.8 | | 19.6 | 24 | 56.2 | | 1.87 | 7 | 1.01 | 26 |
| 27 | | 10.1 | 21 | 18.3 | | 13.3 | 14 | 20.7 | | 1.55 | 8 | 1.07 | 27 |
| 28 | | 8.78 | 21 | 15.9 | 8.0 | 13.4 | 26 S | 30.1 | | 1.51 | 7 | 0.81 | 28 |
| 29 | | 7.38 | 21 | 13.4 | 8.0 | 12.2 | 11 S | 11.8 | | 1.80 | 8 | 1.04 | 29 |
| 30 | 10.0 | 8.81 | 28 S | 17.1 | | 8.55 | 11 | 8.08 | | 1.45 | 10 | 1.25 | 30 |
| 31 | | | | | | 30.6 | 78 | 209 | | | | | 31 |
| TOTAL | | 367.85 | | 587.00 | | 341.87 | | 1 002.67 | | 218.89 | | 335.11 | TOTAL |
| MEAN | | 12.3 | | 18.8 | | 11.0 | | 33.3 | | 7.33 | | 11.2 | MEAN |

PETITCODIAC RIVER NEAR PETITCODIAC - STATION NO. 01BU002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.18 | 9 | 0.90 | | 2.07 | 7 | 1.25 | | 2.82 | 13 | 2.94 | 1 |
| 2 | 15.0 | 1.13 | 8 S | 0.78 | | 2.79 | 11 | 2.85 | | 2.39 | 10 | 2.08 | 2 |
| 3 | | 2.86 | 13 | 2.98 | | 6.24 | 9 | 4.85 | | 1.85 | 10 | 1.60 | 3 |
| 4 | | 3.03 | 12 | 3.14 | | 10.6 | 31 | 27.9 | | 1.44 | 10 | 1.24 | 4 |
| 5 | | 2.10 | 12 | 2.18 | | 8.03 | 26 | 18.0 | | 1.28 | 9 | 0.97 | 5 |
| 6 | | 4.50 | 19 | 7.39 | | 3.94 | 18 | 5.45 | | 1.10 | 9 | 0.86 | 6 |
| 7 | | 10.8 | 24 | 22.4 | | 4.86 | 18 | 7.35 | | 0.988 | 8 | 0.87 | 7 |
| 8 | | 9.56 | 17 | 14.0 | | 4.83 | 11 | 4.58 | | 0.918 | 8 | 0.63 | 8 |
| 9 | 19.0 | 4.47 | 12 S | 5.05 | | 2.83 | 11 | 2.68 | | 0.841 | 8 | 0.58 | 9 |
| 10 | 19.0 | 3.23 | 11 S | 3.07 | | 3.80 | 14 | 4.11 | | 1.15 | 10 | 0.99 | 10 |
| 11 | | 2.39 | 10 | 2.08 | | 3.41 | 12 | 3.54 | | 1.02 | 9 | 0.79 | 11 |
| 12 | | 2.04 | 9 | 1.59 | | 4.81 | 23 | 9.14 | 20.0 | 0.951 | 4 S | 0.33 | 12 |
| 13 | | 1.75 | 7 | 1.06 | | 10.2 | 35 | 30.8 | | 0.889 | 3 | 0.23 | 13 |
| 14 | | 1.58 | 8 | 0.81 | | 8.15 | 19 | 8.52 | | 0.859 | 4 | 0.30 | 14 |
| 15 | | 1.59 | 6 | 0.80 | | 3.50 | 11 S | 3.33 | | 0.783 | 4 | 0.27 | 15 |
| 16 | 20.0 | 1.85 | 5 S | 0.71 | | 2.72 | 8 | 2.12 | | 0.781 | 4 | 0.26 | 16 |
| 17 | | 2.21 | 7 | 1.36 | | 2.14 | 8 | 1.68 | | 0.880 | 3 | 0.18 | 17 |
| 18 | | 2.08 | 7 | 1.25 | | 1.85 | 8 | 1.37 | | 0.893 | 5 | 0.43 | 18 |
| 19 | | 1.48 | 8 | 0.77 | | 2.74 | 10 | 2.37 | | 1.04 | 7 | 0.63 | 19 |
| 20 | | 1.38 | 8 | 0.86 | | 2.44 | 8 | 1.80 | | 0.984 | 7 | 0.84 | 20 |
| 21 | | 1.19 | 5 | 0.51 | | 1.85 | 8 | 1.48 | | 0.910 | 7 | 0.85 | 21 |
| 22 | | 1.72 | 5 | 0.74 | | 1.80 | 8 | 1.24 | | 0.871 | 7 | 0.83 | 22 |
| 23 | 20.0 | 8.75 | 52 S | 39.3 | | 1.47 | 8 | 1.14 | | 1.72 | 10 | 1.49 | 23 |
| 24 | 20.0 | 11.2 | 96 S | 94.3 | | 1.28 | 8 | 0.88 | | 1.36 | 8 | 1.00 | 24 |
| 25 | | 8.80 | 17 | 8.23 | | 1.15 | 8 | 0.88 | | 1.11 | 8 | 0.88 | 25 |
| 26 | | 3.13 | 8 | 2.18 | | 1.05 | 8 | 0.82 | | 1.05 | 8 | 0.73 | 26 |
| 27 | | 2.82 | 8 | 2.27 | | 1.32 | 15 | 1.58 | | 0.988 | 8 | 0.87 | 27 |
| 28 | | 3.20 | 8 | 2.48 | | 1.78 | 15 | 2.47 | | 0.950 | 8 | 0.86 | 28 |
| 29 | | 2.30 | 7 | 1.33 | | 1.68 | 12 | 1.85 | | 0.900 | 8 | 0.82 | 29 |
| 30 | 20.0 | 1.84 | 8 S | 0.85 | | 1.38 | 12 | 1.44 | | 0.871 | 8 | 0.80 | 30 |
| 31 | | 1.89 | 7 | 1.14 | | 1.38 | 10 | 1.19 | | | | | 31 |
| TOTAL | | 104.44 | | 168.17 | | 195.08 | | 198.34 | | 34.148 | | 24.25 | TOTAL |
| MEAN | | 3.37 | | 5.01 | | 3.39 | | 5.11 | | 1.14 | | 0.81 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.813 | 8 | 0.56 | | 0.805 | 4 | 0.31 | | 14.8 | 15 | 18.8 | 1 |
| 2 | | 0.782 | 7 | 0.47 | | 0.833 | 4 | 0.28 | | 10.8 | 12 | 11.2 | 2 |
| 3 | | 0.785 | 6 | 0.53 | | 0.822 | 4 | 0.28 | | 6.37 | 11 | 7.06 | 3 |
| 4 | | 0.678 | 7 | 0.41 | | 0.882 | 5 | 0.37 | | 6.37 | 10 | 5.50 | 4 |
| 5 | | 2.56 | 21 | 4.66 | | 0.936 | 5 | 0.43 | | 5.36 S | 10 | 4.85 | 5 |
| 6 | | 6.51 | 20 | 11.2 | | 2.60 | 12 | 2.70 | | 5.22 | 9 | 4.06 | 6 |
| 7 | | 5.45 | 13 | 6.13 | | 6.58 | 32 | 23.7 | | 10.6 | 26 | 25.6 | 7 |
| 8 | | 3.26 | 10 | 2.82 | | 6.06 | 16 | 9.85 | | 5.80 S | 13 | 11.0 | 8 |
| 9 | | 2.30 | 10 | 1.98 | | 3.04 | 11 | 3.74 | | 5.80 S | 11 | 8.46 | 9 |
| 10 | | 1.83 | 10 | 1.58 | | 2.66 | 9 | 2.06 | | 5.00 S | 11 | 5.70 | 10 |
| 11 | | 1.43 | 9 | 1.11 | | 4.08 | 15 | 5.30 | | 5.80 S | 11 | 5.51 | 11 |
| 12 | | 1.19 | 8 | 0.93 | | 7.23 | 16 | 9.85 | | 7.10 S | 11 | 8.75 | 12 |
| 13 | | 1.12 | 7 | 0.88 | | 5.88 | 10 | 6.02 | | 17.0 S | 13 | 19.1 | 13 |
| 14 | | 2.81 | 11 | 2.36 | | 3.82 | 9 | 2.97 | | 86.0 S | 68 | 328 | 14 |
| 15 | | 2.76 | 9 | 2.18 | 3.0 | 3.82 | 8 S | 1.81 | | 83.6 | 68 | 491 | 15 |
| 16 | | 2.06 | 9 | 1.60 | | 2.61 | 8 | 1.35 | 5.0 | 87.4 | 25 S | 146 | 16 |
| 17 | | 1.71 | 8 | 1.18 | | 7.18 | 25 | 15.0 | | 39.2 | 12 | 40.7 | 17 |
| 18 | | 1.46 | 8 | 0.77 | | 10.8 | 35 | 32.1 | | 20.9 | 11 | 19.5 | 18 |
| 19 | | 1.28 | 6 | 0.64 | | 8.14 | 14 | 9.85 | | 13.4 | 10 | 11.8 | 19 |
| 20 | | 1.12 | 4 | 0.38 | | 5.31 | 8 | 3.67 | | 11.3 | 8 | 7.81 | 20 |
| 21 | 3.0 | 1.05 | 4 S | 0.38 | | 4.23 | 8 | 2.92 | | 8.00 S | 8 | 5.22 | 21 |
| 22 | | 1.03 | 5 | 0.46 | | 12.7 | 32 | 35.1 | | 8.00 S | 7 | 4.84 | 22 |
| 23 | | 1.02 | 5 | 0.44 | | 15.8 | 31 | 38.7 | | 7.00 S | 7 | 4.23 | 23 |
| 24 | | 0.918 | 4 | 0.32 | | 11.3 | 13 | 13.7 | | 8.00 S | 8 | 4.15 | 24 |
| 25 | | 0.835 | 3 | 0.22 | | 14.4 | 27 | 33.5 | | 5.80 S | 7 | 3.38 | 25 |
| 26 | | 0.820 | 4 | 0.32 | | 30.8 | 36 | 88.3 | | 5.20 S | 8 | 3.70 | 26 |
| 27 | | 0.870 | 4 | 0.34 | | 13.8 | 10 | 11.9 | | 4.60 S | 8 | 3.49 | 27 |
| 28 | | 0.858 | 3 | 0.26 | | 8.39 | 8 | 6.62 | | 5.20 S | 8 | 3.76 | 28 |
| 29 | | 0.881 | 4 | 0.33 | | 7.81 | 8 | 5.40 | | 6.00 S | 8 | 4.15 | 29 |
| 30 | | 0.858 | 3 | 0.26 | | 16.4 | 33 | 43.6 | | 5.60 S | 8 | 4.70 | 30 |
| 31 | | 0.888 | 3 | 0.23 | | | | | | 8.00 S | 7 | 3.63 | 31 |
| TOTAL | | 52.120 | | 45.51 | | 212.380 | | 380.63 | | 475.24 | | 1 221.49 | TOTAL |
| MEAN | | 1.68 | | 1.47 | | 7.08 | | 12.7 | | 15.3 | | 39.4 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 6 301.97 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 24 | |
| MAXIMUM DAILY | 97 | ON MAR 13 |
| MINIMUM DAILY | 3 | ON SEP 13 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 14.7 | |
| MAXIMUM DAILY | 491 | ON DEC 15 |
| MINIMUM DAILY | 0.18 | ON SEP 17 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 50 37 N
LONG 65 10 13 W
DRAINAGE AREA 381 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

B - SAMPLE(S) COLLECTED THIS DAY

# NEWFOUNDLAND

## HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 34.8 | 2 | 5.98 | | 14.0 B | 13 | 15.7 | | 8.00 B | 29 | 21.5 | 1 |
| 2 | | 30.8 | 2 | 5.36 | 0.1 | 13.2 B | 14 S | 18.0 | | 8.40 B | 23 | 16.9 | 2 |
| 3 | | 26.7 | 2 | 4.81 | | 13.1 B | 15 | 17.4 | 0.1 | 8.30 B | 14 S | 10.6 | 3 |
| 4 | | 23.0 B | 2 | 3.97 | 0.1 | 12.1 B | 15 S | 15.8 | 0.1 | 8.00 B | 11 S | 8.55 | 4 |
| 5 | | 21.0 B | 4 | 7.26 | | 20.0 B | 22 | 38.0 | | 10.0 B | 10 | 8.64 | 5 |
| 6 | 0.1 | 19.4 B | 4 S | 6.70 | | 42.8 | 32 | 81.4 | | 11.5 B | 8 | 7.95 | 6 |
| 7 | | 16.2 B | 3 | 4.72 | 0.1 | 24.1 | 14 S | 29.2 | | 15.5 B | 14 | 18.7 | 7 |
| 8 | | 17.4 B | 2 | 3.61 | | 19.5 B | 13 | 21.8 | 0.1 | 14.6 B | 15 S | 20.2 | 8 |
| 9 | | 16.5 B | 2 | 2.85 | | 16.0 B | 14 | 21.8 | | 13.4 B | 15 | 17.4 | 9 |
| 10 | 0.1 | 15.7 B | 1 S | 1.36 | | 17.0 B | 14 | 20.8 | | 12.5 B | 14 | 15.2 | 10 |
| 11 | | 15.2 B | 1 | 1.31 | | 15.0 B | 14 | 18.4 | | 11.6 B | 13 | 13.3 | 11 |
| 12 | 0.1 | 83.2 | 13 S | 93.5 | 0.1 | 15.4 B | 15 S | 20.0 | 0.1 | 11.3 B | 12 S | 11.7 | 12 |
| 13 | 1.0 | 192 | 23 S | 382 | | 14.6 B | 12 | 18.3 | 2.0 | 12.6 | 8 S | 8.71 | 13 |
| 14 | | 142 | 20 | 245 | | 14.2 B | 9 | 11.0 | 2.0 | 16.3 | 10 S | 15.7 | 14 |
| 15 | 1.0 | 90.6 | 8 S | 62.6 | | 13.5 B | 8 | 9.33 | | 20.0 | 9 | 15.8 | 15 |
| 16 | | 73.1 | 6 | 37.9 | 0.1 | 13.0 B | 7 S | 7.88 | 0.5 | 13.5 | 5 S | 8.00 | 16 |
| 17 | 3.0 | 62.6 | 6 S | 32.5 | | 12.5 B | 8 | 8.64 | | 11.6 | 5 | 5.10 | 17 |
| 18 | | 53.2 | 5 | 27.6 | | 12.1 B | 9 | 9.41 | | 11.0 | 5 | 4.78 | 18 |
| 19 | | 44.8 | 6 | 23.3 | | 11.8 B | 11 | 11.0 | | 10.8 | 5 | 4.85 | 19 |
| 20 | | 34.0 B | 6 | 17.8 | | 11.3 B | 13 | 12.7 | | 11.1 | 5 | 4.80 | 20 |
| 21 | 0.1 | 26.6 B | 7 S | 16.4 | 0.1 | 10.8 B | 20 S | 18.8 | 3.5 | 22.5 | 10 S | 19.4 | 21 |
| 22 | | 23.9 B | 10 | 19.8 | | 10.5 B | 11 | 9.98 | | 22.5 | 8 | 17.5 | 22 |
| 23 | | 23.0 B | 10 | 19.9 | 0.1 | 10.3 B | 9 S | 8.01 | | 51.8 | 16 | 71.3 | 23 |
| 24 | | 23.1 | 9 | 18.0 | | 10.0 B | 15 | 13.0 | | 45.1 | 17 | 80.2 | 24 |
| 25 | 0.1 | 21.7 | 10 S | 16.7 | | 9.80 B | 15 | 14.9 | | 27.2 | 14 | 32.9 | 25 |
| 26 | | 20.3 | 10 | 17.5 | | 9.35 B | 19 | 15.3 | | 24.0 | 12 | 24.9 | 26 |
| 27 | | 18.8 | 10 | 16.2 | | 9.10 B | 23 | 18.1 | | 23.2 | 10 | 19.2 | 27 |
| 28 | | 17.5 B | 11 | 16.8 | 0.1 | 8.90 B | 27 S | 20.6 | 2.0 | 20.8 | 9 S | 15.2 | 28 |
| 29 | 0.1 | 16.6 B | 11 S | 15.7 | | | | | | 19.5 | 10 | 16.8 | 29 |
| 30 | | 15.7 B | 11 | 14.8 | | | | | 3.0 | 18.4 | 10 S | 15.9 | 30 |
| 31 | | 14.8 B | 12 | 15.3 | | | | | | 17.6 | 10 | 15.2 | 31 |
| TOTAL | | 1 232.9 | | 1 157.08 | | 405.35 | | 524.33 | | 535.80 | | 548.88 | TOTAL |
| MEAN | | 39.8 | | 37.3 | | 14.5 | | 16.7 | | 17.3 | | 17.7 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 16.5 | 8 | 12.8 | | 29.3 | 2 | 5.08 | | 78.3 | 19 | 125 | 1 |
| 2 | | 16.4 | 11 | 15.6 | 5.4 | 33.4 | 7 S | 20.2 | | 116 | 28 | 281 | 2 |
| 3 | | 16.3 | 14 | 18.7 | 5.8 | 45.2 | 8 S | 31.9 | | 76.7 | 15 | 99.4 | 3 |
| 4 | 4.3 | 16.9 A | 15 S | 22.8 | 5.5 | 65.5 | 12 S | 67.5 | 8.7 | 57.3 | 8 S | 29.7 | 4 |
| 5 | | 19.5 E | 18 | 30.3 | | 40.1 | 10 | 34.8 | | 63.5 | 3 | 13.9 | 5 |
| 6 | | 24.0 E | 20 | 41.5 | | 33.0 | 10 | 28.5 | 9.2 | 47.9 | 3 S | 8.33 | 6 |
| 7 | | 26.5 E | 21 | 51.7 | | 27.1 | 10 | 23.4 | | 44.4 | 2 | 7.67 | 7 |
| 8 | | 28.0 E | 22 | 56.5 | | 23.6 | 9 | 18.5 | 9.5 | 61.3 | 3 S | 28.5 | 8 |
| 9 | 1.5 | 28.6 A | 12 S | 41.3 | 5.5 | 21.2 | 9 S | 16.5 | 8.0 | 42.8 | 8 S | 29.7 | 9 |
| 10 | 4.3 | 28.0 | 9 S | 21.6 | | 19.6 | 9 | 15.2 | | 36.3 | 9 | 28.7 | 10 |
| 11 | | 21.4 | 7 | 12.9 | | 18.0 | 8 | 14.0 | | 28.4 | 10 | 25.4 | 11 |
| 12 | 5.6 | 29.2 | 8 S | 22.7 | 5.1 | 17.5 | 9 S | 13.6 | | 28.8 | 11 | 24.5 | 12 |
| 13 | | 34.3 A | 10 | 29.6 | 5.3 | 20.3 | 9 S | 8.77 | 11.5 | 33.0 | 13 S | 23.4 | 13 |
| 14 | | 42.0 E | 12 | 43.5 | | 17.6 | 4 | 8.15 | | 30.7 | 13 | 21.5 | 14 |
| 15 | | 38.5 E | 11 | 37.5 | | 18.3 | 3 | 4.23 | | 18.8 | 12 | 19.5 | 15 |
| 16 | | 38.0 E | 8 | 29.5 | | 18.1 | 2 | 2.81 | | 17.3 | 12 | 17.8 | 16 |
| 17 | | 50.0 E | 14 | 60.5 | 7.3 | 18.4 | 2 S | 2.66 | 11.0 | 15.7 | 12 S | 16.3 | 17 |
| 18 | | 85.0 E | 22 | 124 | | 17.8 | 4 | 8.15 | | 14.9 | 12 | 15.4 | 18 |
| 19 | 4.3 | 80.9 A | 15 S | 105 | | 16.8 | 3 | 4.04 | | 14.4 | 12 | 14.9 | 19 |
| 20 | 4.0 | 78.1 | 5 S | 34.2 | | 13.5 | 2 | 2.33 | 12.8 | 28.8 | 14 S | 34.6 | 20 |
| 21 | | 87.8 | 10 | 78.7 | | 33.6 | 8 | 25.3 | 15.0 | 30.8 | 10 S | 26.8 | 21 |
| 22 | 4.5 | 90.0 | 10 S | 76.5 | 7.2 | 41.7 | 15 S | 54.0 | | 20.8 | 8 | 14.4 | 22 |
| 23 | | 76.0 | 10 | 65.7 | 7.6 | 24.0 | 10 S | 20.7 | | 18.3 | 7 | 11.1 | 23 |
| 24 | | 68.3 | 5 | 30.7 | | 19.2 | 7 | 11.5 | | 16.8 | 7 | 10.3 | 24 |
| 25 | 4.3 | 60.2 | 3 S | 13.0 | | 18.7 | 6 | 8.88 | | 15.8 | 6 | 10.7 | 25 |
| 26 | | 52.3 | 4 | 18.0 | | 15.2 | 5 | 5.57 | | 14.4 | 7 | 8.71 | 26 |
| 27 | 5.3 | 78.6 | 5 S | 34.0 | | 13.8 | 4 | 4.77 | 16.5 | 13.6 | 7 S | 8.36 | 27 |
| 28 | | 49.7 | 2 | 8.69 | | 12.7 | 4 | 4.38 | 17.0 | 13.0 | 8 S | 10.1 | 28 |
| 29 | | 38.6 | 2 | 6.70 | | 12.5 | 4 | 4.32 | | 12.0 | 10 | 10.4 | 29 |
| 30 | | 32.5 | 2 | 5.62 | 7.0 | 13.2 | 4 S | 4.56 | | 11.4 | 10 | 9.65 | 30 |
| 31 | | | | | | 14.2 | 4 | 4.91 | | | | | 31 |
| TOTAL | | 1 335.7 | | 1 189.91 | | 713.5 | | 468.87 | | 985.8 | | 882.21 | TOTAL |
| MEAN | | 44.5 | | 38.7 | | 23.0 | | 15.1 | | 32.9 | | 33.1 | MEAN |

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 10.8 | 10 | 9.33 | | 25.3 | 8 | 17.5 | | 16.4 | 12 | 19.1 | 1 |
| 2 | | 10.8 | 10 | 9.18 | | 26.0 | 8 | 13.5 | 12.8 | 23.4 | 18 S | 22.3 | 2 |
| 3 | | 10.4 | 10 | 8.99 | 17.2 | 42.1 | 8 S | 21.8 | | 19.3 | 13 | 20.0 | 3 |
| 4 | 18.4 | 8.86 | 10 S | 8.35 | | 27.8 | 5 | 12.0 | | 17.7 | 11 | 16.8 | 4 |
| 5 | | 9.11 | 8 | 7.08 | | 23.9 | 5 | 10.3 | 14.8 | 18.2 | 10 S | 14.0 | 5 |
| 6 | | 8.81 | 8 | 8.45 | | 21.7 | 5 | 9.37 | | 15.3 | 8 | 11.9 | 6 |
| 7 | 19.0 | 8.97 | 8 S | 8.88 | 19.3 | 98.2 | 22 S | 183 | 17.2 | 14.8 | 8 S | 10.0 | 7 |
| 8 | | 8.81 | 8 | 8.09 | 18.8 | 94.3 | 15 S | 122 | | 15.8 | 11 | 15.7 | 8 |
| 9 | | 8.56 | 8 | 8.81 | | 51.8 | 2 | 8.90 | | 15.6 | 10 | 13.4 | 9 |
| 10 | 13.8 | 22.6 | 11 S | 22.8 | 14.9 | 107 | 14 S | 129 | 12.8 | 15.3 | 10 S | 14.1 | 10 |
| 11 | 13.4 | 17.8 | 4 S | 8.15 | 14.8 | 72.4 | 18 S | 113 | | 17.4 | 10 | 15.0 | 11 |
| 12 | | 13.0 | 3 | 3.37 | | 55.8 | 18 | 86.8 | 13.2 | 20.3 | 11 S | 19.3 | 12 |
| 13 | | 11.7 | 3 | 3.03 | | 45.5 | 18 | 70.8 | 15.5 | 15.8 | 9 S | 12.8 | 13 |
| 14 | | 11.2 | 3 | 2.90 | | 38.5 | 18 | 59.9 | | 14.3 | 8 | 9.82 | 14 |
| 15 | | 10.9 | 5 | 4.71 | 13.8 | 32.2 | 18 S | 50.1 | | 13.3 | 7 | 8.04 | 15 |
| 16 | 18.6 | 12.7 | 12 S | 13.2 | | 28.2 | 17 | 41.4 | | 14.5 | 9 | 11.3 | 16 |
| 17 | | 21.7 | 11 | 20.0 | | 24.6 | 18 | 34.3 | | 14.5 | 10 | 12.8 | 17 |
| 18 | 12.5 | 41.0 | 5 S | 17.7 | | 23.3 | 18 | 30.8 | | 13.4 | 9 | 10.4 | 18 |
| 19 | 12.8 | 26.5 | 4 S | 9.85 | | 37.9 | 18 | 62.2 | 12.0 | 12.6 | 8 S | 8.80 | 19 |
| 20 | | 16.8 | 4 | 6.50 | 14.0 | 88.8 | 9 S | 91.9 | | 13.0 | 9 | 10.1 | 20 |
| 21 | | 15.2 | 4 | 5.25 | 15.3 | 82.7 | 9 S | 41.0 | | 12.4 | 8 | 8.86 | 21 |
| 22 | | 13.8 | 4 | 4.77 | 17.0 | 44.8 | 11 S | 42.8 | | 11.8 | 8 | 8.02 | 22 |
| 23 | 17.0 | 14.8 | 8 S | 10.1 | | 38.8 | 8 | 25.5 | 15.2 | 86.7 | 28 S | 140 | 23 |
| 24 | 13.7 | 26.5 | 10 S | 24.8 | | 35.7 | 9 | 27.8 | 10.6 | 38.0 | 13 S | 39.3 | 24 |
| 25 | | 17.3 | 10 | 14.8 | | 36.6 | 9 | 32.4 | | 22.9 | 11 | 21.8 | 25 |
| 26 | 15.5 | 15.3 | 11 S | 14.5 | | 28.4 | 8 | 19.8 | 8.8 | 19.0 | 10 S | 16.4 | 26 |
| 27 | | 15.0 | 11 | 14.3 | | 40.8 | 18 | 66.4 | | 16.8 | 9 | 12.8 | 27 |
| 28 | | 13.8 | 11 | 13.2 | | 30.7 | 14 | 37.1 | 11.3 | 20.1 | 12 S | 20.6 | 28 |
| 29 | 15.3 | 14.2 | 11 S | 13.8 | 11.6 | 23.8 | 11 S | 22.4 | | 20.1 | 12 | 20.6 | 29 |
| 30 | | 18.0 | 12 | 18.6 | | 20.4 | 10 | 17.8 | | 17.1 | 12 | 17.7 | 30 |
| 31 | 15.6 | 83.5 | 14 S | 84.7 | | 18.8 | 10 | 18.3 | | | | | 31 |
| TOTAL | | 515.12 | | 378.47 | | 1 298.9 | | 1 457.47 | | 553.8 | | 595.22 | TOTAL |
| MEAN | | 16.6 | | 12.1 | | 41.9 | | 47.0 | | 18.5 | | 19.8 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 15.3 | 12 | 18.9 | 3.3 | 15.7 | 10 S | 13.8 | | 19.8 | 10 | 17.1 | 1 |
| 2 | | 14.9 | 12 | 18.1 | | 15.7 | 11 | 14.8 | | 18.9 | 9 | 14.7 | 2 |
| 3 | 13.8 | 14.8 | 12 S | 18.3 | | 20.8 | 11 | 18.8 | | 18.0 | 9 | 14.0 | 3 |
| 4 | | 14.5 | 12 | 15.0 | | 18.9 | 10 | 15.3 | | 17.2 | 9 | 13.5 | 4 |
| 5 | | 13.9 | 12 | 14.4 | | 18.4 | 9 | 12.8 | | 16.8 A | 8 | 10.8 | 5 |
| 6 | | 14.5 | 13 | 18.4 | | 14.8 | 10 | 13.8 | | 14.9 E | 8 | 10.3 | 6 |
| 7 | 10.4 | 19.3 | 15 S | 25.0 | 5.2 | 23.6 | 10 S | 30.4 | | 13.0 E | 7 | 7.86 | 7 |
| 8 | | 15.1 | 13 | 15.7 | | 22.5 | 11 | 30.5 | 1.5 | 18.9 E | 10 S | 14.5 | 8 |
| 9 | | 15.8 | 14 | 22.9 | | 26.5 | 7 | 16.0 | | 20.0 E | 9 | 15.8 | 9 |
| 10 | 7.5 | 20.0 | 14 S | 24.2 | | 25.7 | 7 | 17.4 | | 17.8 E | 9 | 13.8 | 10 |
| 11 | | 15.7 | 13 | 17.6 | | 21.3 | 8 | 11.0 | | 18.3 E | 8 | 11.3 | 11 |
| 12 | | 14.3 | 12 | 14.8 | 4.5 | 41.9 | 12 S | 43.6 | | 18.5 E | 7 | 9.37 | 12 |
| 13 | | 13.2 | 11 | 12.5 | | 71.7 | 20 | 124 | | 18.0 E | 6 | 13.1 | 13 |
| 14 | | 27.3 | 15 | 44.8 | | 42.6 | 12 | 44.4 | | 26.5 E | 8 | 20.8 | 14 |
| 15 | | 64.8 | 28 | 118 | | 31.9 | 11 | 30.3 | 2.5 | 37.5 A | 10 S | 33.4 | 15 |
| 16 | | 36.7 | 13 | 30.0 | | 28.0 | 10 | 24.3 | | 110 | 31 | 295 | 16 |
| 17 | | 21.3 | 7 | 12.8 | | 28.7 | 10 | 23.1 | | 84.5 | 18 | 83.6 | 17 |
| 18 | | 16.8 | 8 | 9.80 | 5.3 | 31.7 | 11 S | 30.1 | | 45.1 | 11 | 42.9 | 18 |
| 19 | 9.3 | 16.1 | 8 S | 9.38 | | 28.1 | 11 | 27.7 | | 37.5 A | 10 | 32.4 | 19 |
| 20 | | 17.0 | 8 | 8.81 | | 26.6 | 10 | 23.0 | | 33.5 E | 10 | 28.9 | 20 |
| 21 | | 16.2 | 7 | 9.80 | | 23.6 | 10 | 20.4 | | 29.5 E | 8 | 22.8 | 21 |
| 22 | | 15.0 | 7 | 8.07 | 3.0 | 21.5 | 10 S | 18.6 | | 28.1 A | 8 | 20.3 | 22 |
| 23 | | 13.9 | 7 | 8.41 | | 20.0 | 10 | 17.3 | | 26.0 E | 8 | 18.8 | 23 |
| 24 | 4.5 | 12.3 | 8 S | 9.19 | | 18.8 | 10 | 18.2 | | 23.0 E | 8 | 15.2 | 24 |
| 25 | | 12.7 | 8 | 8.78 | | 18.2 | 10 | 15.7 | | 20.2 E | 8 | 14.0 | 25 |
| 26 | | 13.2 | 8 | 8.80 | 3.5 | 27.8 | 12 S | 30.8 | | 18.9 E | 7 | 11.4 | 26 |
| 27 | | 13.8 | 8 | 10.7 | | 29.1 | 12 | 30.2 | | 17.8 E | 7 | 10.8 | 27 |
| 28 | | 14.8 | 11 | 14.1 | | 23.8 | 11 | 22.6 | | 16.4 E | 7 | 9.93 | 28 |
| 29 | | 13.4 | 10 | 11.5 | | 21.0 | 10 | 18.1 | | 15.4 E | 7 | 8.31 | 29 |
| 30 | | 17.1 | 11 | 16.3 | | 30.3 | 10 | 17.8 | | 16.0 E | 10 | 13.8 | 30 |
| 31 | | 15.6 | 10 | 13.4 | | | | | 0.1 | 17.0 E | 11 S | 16.3 | 31 |
| TOTAL | | 548.2 | | 578.24 | | 785.1 | | 781.3 | | 800.8 | | 882.05 | TOTAL |
| MEAN | | 17.6 | | 18.7 | | 26.5 | | 25.6 | | 25.8 | | 29.8 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 8 480.85 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 11 | |
| MAXIMUM DAILY | 91 ON DEC 16 | |
| MINIMUM DAILY | 1 ON JAN 10 | |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 25.9 | |
| MAXIMUM DAILY | 382 | ON JAN 13 |
| MINIMUM DAILY | 1.31 | ON JAN 11 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 36 31 N
LONG 58 21 48 W
DRAINAGE AREA 840 $km^2$
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02ZA002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.55 | 17 | 3.75 | | 0.590 E | 15 | 0.76 | | 0.395 E | 12 | 0.41 | 1 |
| 2 | | 1.95 | 17 | 2.81 | 0.1 | 0.580 E | 15 E | 0.73 | | 0.385 E | 12 | 0.40 | 2 |
| 3 | | 1.60 E | 17 | 2.35 | | 0.540 E | 15 | 0.70 | | 5.04 | 23 | 11.5 | 3 |
| 4 | | 1.40 E | 17 | 2.06 | | 11.2 | 27 | 26.1 | 0.5 | 5.04 | 13 E | 10.2 | 4 |
| 5 | | 1.24 E | 17 | 1.82 | | 21.1 | 30 | 54.7 | | 3.06 | 12 | 4.13 | 5 |
| 6 | 0.1 | 1.10 E | 17 E | 1.62 | | 12.2 | 28 | 30.6 | | 1.98 | 12 | 2.05 | 6 |
| 7 | | 1.00 E | 16 | 1.38 | | 4.26 | 16 | 5.81 | | 1.34 | 11 | 1.18 | 7 |
| 8 | | 0.900 E | 14 | 1.09 | | 2.17 | 13 | 2.44 | | 0.980 E | 11 | 0.90 | 8 |
| 9 | | 0.880 E | 12 | 1.02 | | 1.78 E | 13 | 1.97 | | 0.780 E | 11 | 0.74 | 9 |
| 10 | | 1.11 E | 11 | 1.06 | 1.0 | 1.55 E | 13 E | 1.74 | | 0.700 E | 11 | 0.67 | 10 |
| 11 | 0.1 | 1.50 E | 12 E | 1.55 | | 1.35 E | 12 | 1.40 | | 0.640 E | 11 | 0.61 | 11 |
| 12 | 1.0 | 35.2 | 38 E | 118 | | 1.18 E | 12 | 1.22 | 2.0 | 1.02 | 23 E | 2.03 | 12 |
| 13 | 3.0 | 48.8 | 56 E | 245 | | 1.10 E | 12 | 1.14 | | 5.00 | 23 | 13.7 | 13 |
| 14 | | 14.2 | 44 | 54.0 | | 1.00 E | 11 | 0.95 | | 7.48 | 18 | 11.8 | 14 |
| 15 | | 4.48 | 27 | 10.4 | | 0.920 E | 11 | 0.87 | 2.0 | 4.57 | 14 E | 5.53 | 15 |
| 16 | | 2.14 | 20 | 3.70 | | 0.850 E | 10 | 0.73 | | 2.30 | 12 | 2.38 | 16 |
| 17 | | 1.50 E | 16 | 2.07 | 0.1 | 0.780 E | 10 E | 0.68 | | 1.44 | 12 | 1.49 | 17 |
| 18 | 0.1 | 1.28 E | 13 E | 1.44 | | 0.730 E | 10 | 0.63 | | 1.09 | 12 | 1.13 | 18 |
| 19 | | 1.06 E | 13 | 1.21 | | 0.680 E | 9 | 0.53 | | 1.02 | 12 | 1.08 | 19 |
| 20 | | 0.930 E | 12 | 0.96 | | 0.840 E | 8 | 0.64 | 5.0 | 3.38 | 38 E | 7.04 | 20 |
| 21 | | 0.880 E | 12 | 0.89 | | 0.600 E | 7 | 0.38 | | 8.47 | 19 | 15.5 | 21 |
| 22 | | 0.780 E | 12 | 0.81 | | 0.630 E | 7 | 0.34 | | 7.88 | 38 | 24.5 | 22 |
| 23 | | 0.710 E | 12 | 0.74 | 0.1 | 0.530 E | 8 E | 0.37 | | 18.5 | 37 | 36.2 | 23 |
| 24 | | 0.660 E | 11 | 0.63 | 0.1 | 0.500 E | 11 E | 0.42 | | 8.44 | 20 | 9.40 | 24 |
| 25 | | 0.640 E | 11 | 0.69 | | 0.470 E | 10 | 0.41 | | 2.31 | 14 | 3.78 | 25 |
| 26 | 0.1 | 0.670 E | 11 E | 0.63 | | 0.450 E | 11 | 0.43 | | 1.48 | 8 | 1.15 | 26 |
| 27 | | 0.800 E | 11 | 0.76 | | 0.435 E | 17 | 0.62 | | 1.25 E | 8 | 0.85 | 27 |
| 28 | | 0.780 E | 14 | 0.81 | | 0.410 E | 14 | 0.50 | 0.5 | 1.08 E | 8 E | 0.88 | 28 |
| 29 | | 0.700 E | 17 | 1.03 | | | | | | 1.04 | 8 | 0.84 | 29 |
| 30 | | 0.660 E | 18 | 0.90 | | | | | | 0.921 | 8 | 0.48 | 30 |
| 31 | | 0.615 E | 18 | 0.85 | | | | | | 0.853 | 8 | 0.44 | 31 |
| TOTAL | | 133.285 | | 484.63 | | 68.095 | | 138.48 | | 102.424 | | 170.95 | TOTAL |
| MEAN | | 4.30 | | 15.6 | | 2.47 | | 4.04 | | 3.30 | | 5.51 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.808 | 7 | 0.48 | | 2.21 | 3 | 0.57 | 7.5 | 7.88 | 7 E | 4.85 | 1 |
| 2 | | 1.67 | 14 | 2.20 | | 2.68 | 3 | 0.74 | 9.0 | 28.9 | 33 E | 82.4 | 2 |
| 3 | 2.0 | 3.85 | 13 E | 4.34 | | 3.48 | 3 | 0.90 | 8.0 | 8.73 | 16 E | 12.1 | 3 |
| 4 | | 7.34 | 12 | 7.51 | 8.0 | 3.85 | 3 E | 0.87 | | 3.84 | 8 | 2.85 | 4 |
| 5 | | 7.10 | 8 | 5.52 | 11.0 | 2.80 | 3 E | 0.73 | | 2.31 | 5 | 1.00 | 5 |
| 6 | | 9.34 | 7 | 5.85 | | 2.14 | 3 | 0.55 | | 1.82 | 4 | 0.53 | 6 |
| 7 | 8.0 | 11.3 | 4 E | 3.81 | | 1.53 | 2 | 0.26 | | 1.52 | 4 | 0.53 | 7 |
| 8 | | 8.86 | 8 | 6.69 | | 1.11 | 2 | 0.19 | 10.0 | 1.31 | 3 E | 0.31 | 8 |
| 9 | | 5.94 | 6 | 3.63 | | 0.885 | 2 | 0.15 | | 0.880 | 2 | 0.17 | 9 |
| 10 | | 3.04 | 7 | 1.84 | | 0.822 | 2 | 0.14 | | 0.867 | 2 | 0.19 | 10 |
| 11 | | 2.12 | 10 | 1.83 | | 0.788 | 7 | 0.48 | | 0.778 | 2 | 0.20 | 11 |
| 12 | | 4.63 | 14 | 5.84 | 8.0 | 0.868 | 8 E | 0.78 | | 0.731 | 4 | 0.35 | 12 |
| 13 | | 3.81 | 11 | 3.62 | | 0.920 | 5 | 0.49 | | 0.880 | 4 | 0.47 | 13 |
| 14 | | 2.81 | 9 | 1.95 | | 0.846 | 3 | 0.23 | | 0.834 | 13 | 0.70 | 14 |
| 15 | 8.0 | 2.85 | 8 E | 1.78 | | 0.787 | 2 | 0.13 | 10.0 | 0.873 | 18 E | 0.73 | 15 |
| 16 | | 8.80 | 7 | 4.11 | | 0.882 | 2 | 0.15 | | 0.887 | 15 | 0.73 | 16 |
| 17 | | 11.4 | 8 | 8.88 | | 3.20 | 3 | 0.97 | | 0.841 | 15 | 0.70 | 17 |
| 18 | 7.0 | 16.2 | 8 E | 12.6 | 5.0 | 2.38 | 1 E | 0.20 | | 0.807 | 14 | 0.61 | 18 |
| 19 | | 15.0 | 7 | 8.07 | | 1.58 | 1 | 0.14 | | 0.829 | 14 | 0.84 | 19 |
| 20 | 8.0 | 13.2 | 8 E | 8.84 | | 1.30 | 3 | 0.34 | | 0.863 | 13 | 0.69 | 20 |
| 21 | | 9.80 | 7 | 5.88 | | 1.07 | 14 | 2.36 | | 0.839 | 13 | 0.61 | 21 |
| 22 | | 10.0 | 8 | 7.78 | | 1.55 | 15 | 2.14 | 14.5 | 0.822 | 13 E | 0.61 | 22 |
| 23 | | 8.31 | 6 | 2.70 | | 1.18 | 15 | 1.53 | | 0.484 | 13 | 0.47 | 23 |
| 24 | | 3.10 | 4 | 1.04 | | 0.980 | 15 | 1.24 | | 0.437 | 11 | 0.43 | 24 |
| 25 | | 2.18 | 4 | 0.78 | 7.5 | 0.787 | 13 E | 0.90 | | 0.402 | 11 | 0.38 | 25 |
| 26 | | 10.2 | 5 | 4.41 | | 0.711 | 12 | 0.74 | | 0.375 | 10 | 0.33 | 26 |
| 27 | 9.0 | 8.56 | 3 E | 1.66 | | 0.844 | 10 | 0.66 | | 0.376 | 10 | 0.33 | 27 |
| 28 | | 8.50 | 3 | 0.95 | | 0.697 | 9 | 0.48 | | 0.378 | 9 | 0.29 | 28 |
| 29 | | 3.61 | 3 | 0.83 | | 0.804 | 7 | 0.37 | 10.0 | 0.383 | 8 E | 0.24 | 29 |
| 30 | | 2.16 | 3 | 0.56 | | 0.757 | 7 | 0.46 | | 0.321 | 8 | 0.22 | 30 |
| 31 | | | | | | 2.03 | 8 | 1.31 | | | | | 31 |
| TOTAL | | 199.838 | | 125.04 | | 46.457 | | 20.25 | | 87.777 | | 114.02 | TOTAL |
| MEAN | | 6.66 | | 4.17 | | 1.50 | | 0.65 | | 2.26 | | 3.80 | MEAN |

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02ZA002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.316 | 7 | 0.19 | | 2.83 | 6 | 1.36 | 12.5 | 1.19 | 22 S | 2.35 | 1 |
| 2 | | 0.330 | 7 | 0.20 | | 1.85 | 3 | 0.48 | | 1.98 | 22 | 3.78 | 2 |
| 3 | | 0.383 | 7 | 0.24 | 17.0 | 5.28 | 4 S | 1.82 | | 2.03 | 19 | 3.33 | 3 |
| 4 | | 0.388 | 7 | 0.32 | | 4.48 | 5 | 1.94 | | 2.98 | 19 | 4.89 | 4 |
| 5 | | 0.339 | 7 | 0.20 | | 2.32 | 3 | 0.60 | | 1.89 | 14 | 2.04 | 5 |
| 6 | | 0.316 | 6 | 0.18 | | 1.41 | 3 | 0.37 | | 1.19 | 10 | 1.01 | 6 |
| 7 | 20.0 | 0.339 | 6 S | 0.18 | | 46.8 | 42 | 169 | | 0.886 | 8 | 0.68 | 7 |
| 8 | | 0.421 | 6 | 0.29 | 15.0 | 39.3 | 14 S | 35.4 | | 2.21 | 11 | 2.10 | 8 |
| 9 | | 0.436 | 8 | 0.30 | | 5.13 | 3 | 1.66 | 14.0 | 1.54 | 8 S | 0.87 | 9 |
| 10 | | 1.83 | 11 | 1.74 | 14.0 | 7.80 | 5 S | 3.28 | | 3.89 | 12 | 4.00 | 10 |
| 11 | | 1.24 | 9 | 0.98 | | 5.82 | 3 | 1.48 | | 3.02 | 10 | 2.61 | 11 |
| 12 | | 0.648 | 7 | 0.51 | | 3.31 | 3 | 0.86 | | 3.92 | 12 | 4.08 | 12 |
| 13 | | 0.937 | 4 | 0.32 | | 2.88 | 4 | 0.90 | | 2.19 | 9 | 1.70 | 13 |
| 14 | 22.5 | 0.906 | 3 S | 0.33 | | 3.06 | 5 | 0.88 | | 1.64 | 7 | 0.87 | 14 |
| 15 | | 0.745 | 3 | 0.19 | | 1.39 | 5 | 0.60 | 13.0 | 1.09 | 8 S | 0.75 | 15 |
| 16 | | 0.697 | 3 | 0.18 | | 1.05 | 5 | 0.46 | | 2.00 | 14 | 2.42 | 16 |
| 17 | | 5.68 | 11 | 5.64 | | 0.814 | 5 | 0.39 | | 1.87 | 11 | 1.87 | 17 |
| 18 | | 5.47 | 5 | 2.38 | 20.0 | 0.918 | 5 S | 0.40 | | 1.83 | 9 | 1.19 | 18 |
| 19 | 18.5 | 2.82 | 2 S | 0.45 | | 3.47 | 7 | 1.48 | | 1.33 | 7 | 0.80 | 19 |
| 20 | | 1.52 | 2 | 0.26 | | 3.93 | 8 | 2.72 | | 1.14 | 6 | 0.59 | 20 |
| 21 | | 1.08 | 2 | 0.19 | | 3.80 | 7 | 2.36 | | 0.852 | 8 | 0.49 | 21 |
| 22 | | 0.891 | 2 | 0.15 | | 5.70 | 8 | 5.21 | 18.0 | 0.825 | 7 S | 0.50 | 22 |
| 23 | | 5.08 | 9 | 3.85 | | 4.78 | 7 | 2.88 | | 2.84 | 14 | 3.54 | 23 |
| 24 | | 5.19 | 9 | 4.04 | 16.0 | 3.25 | 4 S | 1.12 | | 2.47 | 9 | 1.93 | 24 |
| 25 | | 2.53 | 5 | 1.09 | | 1.86 | 3 | 0.81 | | 1.87 | 5 | 0.88 | 25 |
| 26 | | 1.89 | 3 | 0.64 | 14.5 | 1.37 | 3 S | 0.38 | | 1.14 | 3 | 0.30 | 26 |
| 27 | 14.0 | 1.46 | 3 S | 0.38 | | 1.17 | 3 | 0.30 | | 0.803 | 7 | 0.55 | 27 |
| 28 | | 1.18 | 2 | 0.20 | | 1.01 | 3 | 0.28 | 12.0 | 7.82 | 7 S | 4.85 | 28 |
| 29 | | 0.871 | 2 | 0.17 | | 0.888 | 3 | 0.23 | | 4.85 | 4 | 1.71 | 29 |
| 30 | | 2.74 | 5 | 1.18 | | 0.788 | 3 | 0.13 | | 3.87 | 5 | 0.87 | 30 |
| 31 | | 5.85 | 11 | 5.65 | | 0.889 | 3 | 0.18 | | | | | 31 |
| TOTAL | | 55.892 | | 33.04 | | 186.317 | | 238.55 | | 85.120 | | 98.63 | TOTAL |
| MEAN | | 1.80 | | 1.07 | | 6.11 | | 7.73 | | 2.17 | | 1.88 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.68 | 2 | 0.64 | | 2.68 | 22 | 4.71 | | 2.78 | 17 | 4.04 | 1 |
| 2 | | 1.34 | 5 | 0.56 | | 2.61 | 20 | 4.91 | | 2.18 | 15 | 2.78 | 2 |
| 3 | | 2.85 | 10 | 2.38 | 3.0 | 3.81 | 22 S | 7.24 | | 1.88 | 13 | 2.08 | 3 |
| 4 | | 2.14 | 7 | 1.28 | | 3.47 | 19 | 5.70 | | 1.58 | 12 | 1.84 | 4 |
| 5 | 6.5 | 1.88 | 6 S | 0.80 | | 2.27 | 17 | 3.33 | | 1.42 | 10 | 1.33 | 5 |
| 6 | | 1.54 | 8 | 0.60 | | 1.72 | 18 | 2.38 | 0.1 | 1.43 | 9 S | 1.11 | 6 |
| 7 | | 1.74 | 7 | 1.05 | | 8.35 | 33 | 23.8 | 1.0 | 8.85 | 21 S | 15.7 | 7 |
| 8 | | 1.78 | 8 | 1.38 | | 8.38 | 23 | 18.7 | | 12.2 | 38 | 39.3 | 8 |
| 9 | | 1.67 | 8 | 1.30 | 4.0 | 5.26 | 13 S | 5.81 | | 5.08 | 14 | 6.13 | 9 |
| 10 | | 1.52 | 8 | 1.06 | | 4.61 | 9 | 3.61 | | 4.08 | 13 | 4.84 | 10 |
| 11 | | 1.20 | 8 | 0.83 | | 2.90 | 8 | 1.90 | | 4.42 | 15 | 5.73 | 11 |
| 12 | | 1.01 | 6 | 0.78 | | 6.36 | 19 | 9.73 | | 3.83 | 11 | 3.40 | 12 |
| 13 | | 0.918 | 9 | 0.71 | | 9.83 | 28 | 31.4 | | 4.18 | 14 | 5.07 | 13 |
| 14 | 12.0 | 2.82 | 13 S | 3.64 | | 4.74 | 18 | 7.37 | 1.0 | 8.13 | 14 S | 7.61 | 14 |
| 15 | | 3.77 | 13 | 4.23 | | 2.70 | 13 | 3.03 | | 12.3 | 30 | 31.5 | 15 |
| 16 | | 2.38 | 9 | 1.84 | 3.0 | 1.97 | 9 S | 1.53 | | 23.6 | 31 | 83.3 | 16 |
| 17 | | 1.68 | 6 | 0.87 | | 6.35 | 30 | 10.5 | | 7.88 | 20 | 13.6 | 17 |
| 18 | | 1.38 | 4 | 0.47 | | 7.84 | 33 | 15.2 | | 4.11 | 14 | 4.57 | 18 |
| 19 | 10.0 | 1.63 | 3 S | 0.50 | | 5.24 | 19 | 8.60 | | 2.78 | 10 | 2.41 | 19 |
| 20 | | 1.88 | 4 | 0.84 | | 4.05 | 17 | 5.85 | | 2.05 S | 10 | 1.77 | 20 |
| 21 | | 2.01 | 8 | 1.04 | | 2.93 | 15 | 3.26 | | 1.78 S | 14 | 2.17 | 21 |
| 22 | | 1.85 | 6 | 0.71 | | 2.05 | 13 | 2.30 | 1.0 | 1.55 S | 14 S | 1.87 | 22 |
| 23 | | 1.43 | 5 | 0.62 | 3.0 | 1.60 | 12 S | 1.67 | | 1.38 S | 12 | 1.44 | 23 |
| 24 | | 1.27 | 5 | 0.55 | | 1.84 | 11 | 1.80 | | 1.25 S | 13 | 1.30 | 24 |
| 25 | 4.5 | 1.10 | 5 S | 0.48 | | 1.80 | 15 | 2.33 | | 1.13 S | 15 | 1.37 | 25 |
| 26 | | 1.72 | 11 | 1.63 | | 33.8 | 37 | 79.4 | | 1.03 S | 15 | 1.33 | 26 |
| 27 | 11.0 | 2.58 | 20 S | 4.42 | | 6.85 | 33 | 18.4 | | 0.830 S | 13 | 1.04 | 27 |
| 28 | | 1.84 | 16 | 2.86 | | 4.38 | 17 | 6.43 | 1.0 | 0.850 S | 11 S | 0.81 | 28 |
| 29 | | 1.78 | 15 | 2.27 | | 2.73 | 15 | 3.64 | | 1.60 S | 13 | 1.58 | 29 |
| 30 | | 2.84 | 20 | 4.86 | 2.0 | 2.77 | 15 S | 3.83 | | 4.00 S | 14 | 4.84 | 30 |
| 31 | | 2.31 | 20 | 3.82 | | | | | | 3.87 | 13 | 3.81 | 31 |
| TOTAL | | 58.478 | | 47.47 | | 166.73 | | 280.79 | | 130.280 | | 224.48 | TOTAL |
| MEAN | | 1.82 | | 1.83 | | 6.89 | | 9.38 | | 4.20 | | 7.24 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 1 916.33 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 18 | |
| MAXIMUM DAILY | 88 | ON JAN 13 |
| MINIMUM DAILY | 1 | ON MAY 16 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 5.25 | |
| MAXIMUM DAILY | 245 | ON JAN 13 |
| MINIMUM DAILY | 0.13 | ON MAY 16 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 08 33 N
LONG 58 47 04 W
DRAINAGE AREA 73.0 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

NORTHEAST BROOK NEAR ADDICKTON - STATION NO. 03YD002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.12 S | 11 | 1.06 | | 1.24 S | 10 | 1.15 | | 0.820 S | 4 | 0.28 | 1 |
| 2 | | 1.08 S | 12 | 1.12 | | 1.25 S | 9 | 0.97 | 0.1 | 0.778 S | 3 S | 0.13 | 2 |
| 3 | | 1.03 S | 11 | 0.98 | | 1.18 S | 9 | 0.90 | | 1.38 S | 3 | 0.22 | 3 |
| 4 | | 1.00 S | 11 | 0.95 | | 1.06 S | 8 | 0.75 | | 3.65 S | 12 | 3.76 | 4 |
| 5 | | 0.980 S | 11 | 0.91 | 1.0 | 1.35 S | 8 S | 0.70 | 0.1 | 3.25 S | 8 S | 2.38 | 5 |
| 6 | | 0.930 S | 11 | 0.88 | | 1.75 S | 5 | 0.76 | | 2.80 S | 4 | 0.97 | 6 |
| 7 | 1.0 | 0.900 S | 11 S | 0.86 | | 1.85 S | 5 | 0.71 | | 2.50 S | 3 | 0.65 | 7 |
| 8 | | 0.870 S | 10 | 0.78 | | 1.53 S | 6 | 0.79 | | 2.22 S | 4 | 0.77 | 8 |
| 9 | | 0.840 S | 10 | 0.73 | 0.1 | 2.40 S | 9 S | 1.87 | 1.0 | 2.00 S | 5 S | 0.86 | 9 |
| 10 | | 0.810 S | 9 | 0.63 | 1.0 | 3.90 S | 12 S | 4.06 | | 1.78 S | 7 | 1.08 | 10 |
| 11 | | 0.773 S | 8 | 0.53 | | 3.60 S | 10 | 3.02 | 1.5 | 2.30 S | 10 S | 1.95 | 11 |
| 12 | 1.0 | 1.80 S | 8 S | 1.04 | | 3.10 S | 9 | 2.41 | | 3.20 S | 10 | 2.78 | 12 |
| 13 | | 2.60 S | 15 | 4.04 | | 2.85 S | 9 | 2.22 | | 4.90 S | 10 | 4.23 | 13 |
| 14 | 1.0 | 5.80 S | 20 S | 10.2 | | 2.60 S | 9 | 2.02 | | 7.70 S | 10 | 6.65 | 14 |
| 15 | | 5.40 S | 17 | 7.83 | | 2.35 S | 9 | 1.83 | 1.5 | 5.80 S | 8 S | 4.61 | 15 |
| 16 | | 4.85 S | 15 | 6.43 | 1.0 | 2.15 S | 10 S | 1.86 | | 4.70 S | 8 | 3.65 | 16 |
| 17 | | 4.45 S | 14 | 5.38 | | 2.00 S | 10 | 1.73 | | 3.80 S | 8 | 2.85 | 17 |
| 18 | | 4.05 S | 14 | 4.90 | | 1.83 S | 9 | 1.42 | | 3.15 S | 8 | 2.45 | 18 |
| 19 | | 3.75 S | 15 | 4.85 | 1.0 | 1.68 S | 7 S | 1.03 | 1.0 | 2.70 S | 8 S | 1.87 | 19 |
| 20 | | 3.45 S | 15 | 4.47 | | 1.55 S | 6 | 0.80 | | 2.30 S | 8 | 1.79 | 20 |
| 21 | 1.0 | 3.18 S | 15 S | 4.10 | | 1.43 S | 7 | 0.88 | | 5.90 S | 8 | 4.35 | 21 |
| 22 | | 2.90 S | 15 | 3.78 | | 1.32 S | 7 | 0.80 | 1.0 | 4.70 S | 8 S | 3.25 | 22 |
| 23 | | 2.85 S | 14 | 3.21 | | 1.23 S | 7 | 0.74 | | 4.05 S | 7 | 2.46 | 23 |
| 24 | | 2.45 S | 13 | 2.75 | | 1.18 S | 7 | 0.70 | | 3.65 S | 8 | 1.84 | 24 |
| 25 | | 2.38 S | 13 | 2.68 | 1.0 | 1.07 S | 8 S | 0.74 | 1.0 | 3.05 S | 8 S | 1.84 | 25 |
| 26 | | 2.07 S | 12 | 2.15 | | 1.00 S | 8 | 0.88 | | 2.85 S | 8 | 1.37 | 26 |
| 27 | | 1.95 S | 13 | 2.02 | | 0.840 S | 8 | 0.85 | | 2.30 S | 6 | 1.18 | 27 |
| 28 | | 1.80 S | 11 | 1.71 | | 0.830 S | 8 | 0.66 | | 2.03 S | 7 | 1.23 | 28 |
| 29 | 1.0 | 1.67 S | 11 S | 1.58 | | | | | 1.5 | 4.20 S | 8 S | 3.27 | 29 |
| 30 | | 1.55 S | 11 | 1.47 | | | | | | 14.6 A | 10 | 12.8 | 30 |
| 31 | | 1.45 S | 10 | 1.25 | | | | | | 13.5 | 9 | 10.8 | 31 |
| TOTAL | | 70.383 | | 85.21 | | 50.050 | | 36.82 | | 132.178 | | 87.77 | TOTAL |
| MEAN | | 2.27 | | 2.75 | | 1.78 | | 1.31 | | 3.84 | | 2.83 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 11.5 | 10 | 9.94 | | 31.8 | 8 | 31.8 | 15.0 | 5.20 | 8 S | 3.70 | 1 |
| 2 | | 8.48 | 10 | 7.33 | | 28.8 | 8 | 20.7 | | 5.75 | 8 | 3.89 | 2 |
| 3 | | 9.38 | 10 | 4.85 | 1.1 | 26.5 | 6 S | 18.8 | | 6.48 | 15 | 11.0 | 3 |
| 4 | 1.5 | 4.39 | 10 S | 3.79 | | 23.7 | 8 | 16.4 | 10.0 | 10.8 | 8 S | 8.24 | 4 |
| 5 | | 3.85 | 9 | 3.07 | | 20.6 | 8 | 14.2 | | 11.3 | 8 | 8.88 | 5 |
| 6 | | 3.83 | 9 | 2.82 | | 18.3 | 8 | 14.2 | | 11.5 | 8 | 8.88 | 6 |
| 7 | | 3.32 | 9 | 2.58 | 1.1 | 16.2 | 8 S | 13.8 | | 11.1 | 8 | 8.75 | 7 |
| 8 | | 3.13 | 8 | 2.43 | | 14.8 | 8 | 10.1 | 10.0 | 10.8 | 7 S | 8.41 | 8 |
| 9 | 1.5 | 3.51 | 10 S | 3.03 | | 13.4 | 8 | 9.26 | | 9.75 | 10 | 8.45 | 9 |
| 10 | | 3.30 S | 9 | 2.87 | 8.0 | 11.8 | 8 S | 8.18 | | 9.00 | 11 | 8.85 | 10 |
| 11 | | 3.00 S | 8 | 2.07 | 7.0 | 10.4 | 8 S | 8.08 | 12.0 | 8.18 | 12 S | 8.48 | 11 |
| 12 | | 3.25 S | 8 | 1.88 | | 9.42 | 8 | 7.32 | | 7.45 | 11 | 7.08 | 12 |
| 13 | 1.5 | 3.48 | 8 S | 1.20 | | 8.54 | 10 | 7.38 | | 8.60 | 10 | 8.68 | 13 |
| 14 | | 3.40 S | 3 | 0.88 | 8.0 | 7.62 | 8 S | 8.82 | | 8.27 | 8 | 4.88 | 14 |
| 15 | | 3.14 | 5 | 1.38 | | 7.34 | 8 | 8.07 | 13.0 | 8.64 | 8 S | 2.92 | 15 |
| 16 | 1.0 | 3.13 | 8 S | 2.43 | | 7.01 | 8 | 4.85 | | 5.23 | 8 | 2.71 | 16 |
| 17 | | 3.84 | 13 | 3.88 | | 6.82 | 7 | 4.18 | | 4.70 | 8 | 2.44 | 17 |
| 18 | | 4.84 | 20 | 8.35 | 8.0 | 8.78 | 8 S | 3.82 | 15.0 | 4.35 | 7 S | 2.83 | 18 |
| 19 | | 7.37 | 24 | 15.3 | | 8.64 | 8 | 3.38 | | 4.08 | 8 | 2.81 | 19 |
| 20 | 1.0 | 11.2 | 8 S | 8.71 | | 8.44 | 8 | 2.78 | | 3.80 | 8 | 2.83 | 20 |
| 21 | | 15.4 | 5 | 6.85 | 8.0 | 8.41 | 4 S | 2.22 | | 3.47 | 7 | 2.10 | 21 |
| 22 | | 18.9 | 5 | 8.15 | | 8.77 | 4 | 2.34 | 20.0 | 3.14 | 6 S | 1.83 | 22 |
| 23 | 1.0 | 32.7 | 8 S | 11.8 | | 7.19 | 6 | 3.71 | | 2.82 | 8 | 1.81 | 23 |
| 24 | | 36.7 | 7 | 18.5 | | 7.28 | 7 | 4.38 | | 2.85 | 7 | 1.72 | 24 |
| 25 | 1.0 | 36.7 | 8 S | 18.9 | 10.0 | 7.03 | 7 S | 4.35 | 18.0 | 2.84 | 11 S | 2.70 | 25 |
| 26 | | 25.8 | 8 | 17.8 | | 8.88 | 7 | 4.05 | | 2.82 | 11 | 2.49 | 26 |
| 27 | 1.0 | 26.4 | 8 S | 18.3 | | 8.35 | 8 | 4.39 | | 2.48 | 11 | 2.34 | 27 |
| 28 | | 20.1 | 8 | 20.1 | 15.0 | 8.08 | 8 S | 4.20 | | 2.25 | 12 | 2.33 | 28 |
| 29 | | 21.6 | 8 | 21.6 | | 8.51 | 7 | 3.38 | 18.0 | 1.94 | 12 S | 2.01 | 29 |
| 30 | 1.0 | 22.3 | 8 S | 22.3 | | 8.34 | 8 | 2.77 | | 1.77 | 11 | 1.68 | 30 |
| 31 | | | | | | 4.88 | 8 | 2.88 | | | | | 31 |
| TOTAL | | 361.34 | | 248.89 | | 353.70 | | 236.84 | | 170.08 | | 128.80 | TOTAL |
| MEAN | | 11.7 | | 8.30 | | 11.4 | | 7.84 | | 5.67 | | 4.30 | MEAN |

NORTHEAST BROOK NEAR ROBDICKTON - STATION NO. 03YB002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.61 | 10 | 1.39 | | 5.10 | 6 | 2.64 | | 2.37 | 11 | 2.25 | 1 |
| 2 | 18.0 | 1.55 | 9 S | 1.21 | | 4.93 | 5 | 2.13 | | 2.29 | 12 | 2.37 | 2 |
| 3 | | 1.45 | 6 | 0.77 | 15.0 | 4.83 | 5 S | 2.06 | 15.0 | 2.10 | 11 S | 2.00 | 3 |
| 4 | | 1.43 | 3 | 0.37 | | 4.77 | 5 | 2.08 | | 2.00 | 10 | 1.73 | 4 |
| 5 | 18.0 | 1.35 | 4 S | 0.47 | | 4.66 | 5 | 2.42 | | 1.94 | 10 | 1.66 | 5 |
| 6 | 18.0 | 1.31 | 6 S | 0.81 | 15.0 | 4.42 | 7 S | 2.67 | | 1.88 | 10 | 1.81 | 6 |
| 7 | | 1.30 | 9 | 1.01 | | 4.44 | 7 | 2.88 | 15.0 | 1.87 | 10 S | 1.82 | 7 |
| 8 | | 1.19 | 8 | 0.82 | | 4.41 | 8 | 3.08 | | 1.91 | 8 | 1.48 | 8 |
| 9 | 16.0 | 1.13 | 7 S | 0.68 | | 4.14 | 8 | 2.88 | | 1.88 | 8 | 1.30 | 9 |
| 10 | | 1.32 | 9 | 1.03 | 15.0 | 4.74 | 12 S | 4.81 | 15.0 | 1.80 | 7 S | 1.09 | 10 |
| 11 | | 1.25 | 10 | 1.06 | | 6.85 | 13 | 7.89 | | 1.78 | 7 | 1.08 | 11 |
| 12 | | 1.16 | 11 | 1.12 | | 5.81 | 8 | 4.71 | | 1.76 | 7 | 1.04 | 12 |
| 13 | 21.0 | 1.11 | 12 S | 1.15 | 17.0 | 5.71 | 8 S | 3.68 | | 1.76 | 7 | 1.03 | 13 |
| 14 | | 1.01 | 12 | 1.05 | | 5.58 | 8 | 3.83 | 14.5 | 1.73 | 7 S | 1.05 | 14 |
| 15 | | 0.958 | 10 | 0.84 | | 4.13 | 8 | 2.69 | | 1.64 | 7 | 0.99 | 15 |
| 16 | 22.0 | 0.924 | 8 S | 0.64 | | 5.76 | 6 | 2.99 | | 1.59 | 6 | 0.82 | 16 |
| 17 | | 0.853 | 8 | 0.60 | 20.0 | 5.27 | 10 S | 4.55 | 14.5 | 1.53 | 6 S | 0.79 | 17 |
| 18 | | 1.08 | 8 | 0.75 | | 4.81 | 11 | 4.57 | | 1.46 | 6 | 0.75 | 18 |
| 19 | | 1.20 | 8 | 0.83 | | 4.40 | 10 | 3.80 | | 1.41 | 6 | 0.73 | 19 |
| 20 | 20.0 | 1.19 | 8 S | 0.82 | 17.0 | 4.08 | 8 S | 2.83 | | 1.68 | 7 | 0.90 | 20 |
| 21 | | 1.15 | 6 | 0.78 | | 3.78 | 8 | 1.86 | 11.0 | 1.62 | 8 S | 0.86 | 21 |
| 22 | | 1.15 | 8 | 0.78 | | 3.78 | 8 | 1.83 | | 1.36 | 11 | 1.35 | 22 |
| 23 | | 1.25 | 8 | 0.87 | | 3.84 | 8 | 1.56 | | 1.31 | 11 | 1.26 | 23 |
| 24 | | 1.66 | 7 | 1.14 | 16.0 | 3.90 | 5 S | 1.51 | 11.0 | 1.32 | 10 S | 1.14 | 24 |
| 25 | | 2.02 | 7 | 1.22 | | 3.28 | 5 | 1.71 | | 1.36 | 11 | 1.20 | 25 |
| 26 | | 2.21 | 7 | 1.34 | | 3.24 | 4 | 1.12 | | 1.33 | 12 | 1.28 | 26 |
| 27 | | 3.86 | 7 | 2.48 | 15.0 | 3.23 | 2 S | 0.84 | | 1.18 | 11 | 1.13 | 27 |
| 28 | | 4.84 | 7 | 2.77 | | 3.11 | 5 | 1.34 | 12.0 | 1.26 | 11 S | 1.18 | 28 |
| 29 | 17.0 | 4.89 | 7 S | 3.03 | | 2.87 | 5 | 1.49 | | 1.25 | 12 | 1.30 | 29 |
| 30 | | 5.24 | 8 | 3.73 | | 2.09 | 6 | 1.68 | | 1.34 | 12 | 1.38 | 30 |
| 31 | | 5.40 | 8 | 3.80 | 17.0 | 3.64 | 10 S | 2.19 | | | | | 31 |
| TOTAL | | 98.335 | | 37.41 | | 138.36 | | 84.78 | | 49.04 | | 38.54 | TOTAL |
| MEAN | | 1.86 | | 1.21 | | 4.50 | | 2.73 | | 1.84 | | 1.28 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.5 | 1.35 | 12 S | 1.30 | | 4.20 | 4 | 1.45 | | 4.35 B | 5 | 1.84 | 1 |
| 2 | | 1.25 | 10 | 1.08 | | 4.01 | 4 | 1.38 | | 4.10 B | 4 | 1.42 | 2 |
| 3 | | 1.26 | 10 | 1.08 | | 3.86 | 4 | 1.35 | 1.0 | 4.00 B | 4 S | 1.38 | 3 |
| 4 | | 1.20 | 9 | 1.00 | | 3.58 | 4 | 1.36 | | 3.80 B | 4 | 1.35 | 4 |
| 5 | | 1.32 | 8 | 0.81 | 3.0 | 3.73 | 4 S | 1.28 | | 3.70 B | 4 | 1.28 | 5 |
| 6 | | 1.31 | 7 | 0.79 | | 3.61 | 5 | 1.52 | | 3.35 B | 5 | 1.40 | 6 |
| 7 | | 1.32 | 8 | 0.88 | | 3.46 | 5 | 1.48 | | 2.95 B | 6 | 1.53 | 7 |
| 8 | | 1.37 | 8 | 0.55 | | 3.58 | 5 | 1.54 | | 2.85 B | 6 | 1.32 | 8 |
| 9 | 10.0 | 1.37 | 9 S | 0.89 | | 3.60 | 5 | 1.55 | 1.0 | 2.80 B | 6 S | 1.45 | 9 |
| 10 | | 1.38 | 4 | 0.46 | | 3.52 | 5 | 1.53 | | 3.15 B | 6 | 1.63 | 10 |
| 11 | | 1.29 | 4 | 0.45 | | 3.43 | 7 | 2.07 | | 2.85 B | 5 | 1.23 | 11 |
| 12 | 9.0 | 1.17 | 3 S | 0.30 | 3.0 | 3.67 | 4 S | 1.85 | | 2.80 B | 5 | 1.12 | 12 |
| 13 | | 1.15 | 4 | 0.40 | | 4.05 | 5 | 2.41 | | 2.40 B | 5 | 1.04 | 13 |
| 14 | | 1.31 | 3 | 0.34 | | 5.00 | 7 | 3.02 | | 2.25 B | 4 | 0.76 | 14 |
| 15 | | 2.85 | 3 | 0.69 | | 5.05 | 8 | 3.48 | | 2.05 B | 4 | 0.71 | 15 |
| 16 | | 2.96 | 3 | 0.77 | | 5.13 | 8 | 3.55 | | 1.95 B | 4 | 0.67 | 16 |
| 17 | | 2.99 | 3 | 0.78 | | 5.11 | 8 | 3.53 | 1.0 | 2.95 B | 3 S | 0.76 | 17 |
| 18 | | 3.03 | 3 | 0.79 | | 5.19 | 9 | 4.04 | | 2.75 B | 3 | 0.71 | 18 |
| 19 | | 3.15 | 5 | 1.36 | 3.0 | 5.22 | 9 S | 4.05 | | 2.55 B | 3 | 0.66 | 19 |
| 20 | | 3.14 | 6 | 1.83 | | 5.23 | 9 | 4.07 | | 2.40 B | 3 | 0.62 | 20 |
| 21 | 7.0 | 3.10 | 9 S | 1.81 | | 5.21 | 10 | 4.50 | | 2.20 B | 4 | 0.76 | 21 |
| 22 | | 2.87 | 6 | 1.56 | | 5.19 | 10 | 4.48 | | 2.07 B | 4 | 0.72 | 22 |
| 23 | | 2.87 | 6 | 1.49 | | 5.03 | 10 | 4.35 | | 1.93 B | 5 | 0.83 | 23 |
| 24 | | 2.71 | 6 | 1.40 | | 4.85 | 10 | 4.20 | 1.0 | 1.81 B | 5 S | 0.78 | 24 |
| 25 | | 2.65 | 6 | 1.32 | | 4.47 | 10 | 3.86 | | 1.72 B | 5 | 0.74 | 25 |
| 26 | | 3.57 | 7 | 1.74 | 3.0 | 4.62 | 10 S | 3.99 | | 1.63 B | 4 | 0.65 | 26 |
| 27 | 7.0 | 4.35 | 7 S | 2.66 | | 4.84 | 10 | 4.27 | | 1.55 B | 4 | 0.64 | 27 |
| 28 | | 4.48 | 4 | 1.54 | | 5.05 | 9 | 3.93 | | 1.46 B | 3 | 0.38 | 28 |
| 29 | 7.0 | 4.46 | 3 S | 1.15 | | 4.57 | 8 | 3.15 | | 1.90 B | 3 | 0.49 | 29 |
| 30 | | 4.48 | 4 | 1.54 | | 4.40 B | 8 | 3.26 | 1.0 | 2.45 B | 3 S | 0.84 | 30 |
| 31 | | 4.32 | 4 | 1.49 | | | | | | 2.25 B | 3 | 0.39 | 31 |
| TOTAL | | 76.11 | | 33.80 | | 133.47 | | 85.83 | | 80.38 | | 35.73 | TOTAL |
| MEAN | | 2.42 | | 1.06 | | 4.45 | | 2.86 | | 2.89 | | 0.85 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD : 134.23 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 6 | |
| MAXIMUM DAILY | 24 | ON APR 15 |
| MINIMUM DAILY | 2 | ON MAR 02 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 3.11 | |
| MAXIMUM DAILY | 22.8 | ON APR 30 |
| MINIMUM DAILY | 0.13 | ON MAR 03 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 55 44 N
LONG 55 05 44 W
DRAINAGE AREA 200 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZM004

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.38 | 4 | 0.48 | | 1.17 | 12 S | 1.21 | | 1.31 | 4 S | 0.43 | 1 |
| 2 | | 1.12 | 5 | 0.48 | | 1.30 | 8 | 1.01 | | 1.19 | 10 | 1.03 | 2 |
| 3 | | 0.931 | 5 | 0.40 | | 0.888 | 4 S | 0.31 | 0.5 | 10.5 | 46 S | 41.7 | 3 |
| 4 | | 0.840 S | 5 | 0.44 | | 0.816 | 3 | 0.16 | | 15.3 | 20 S | 26.4 | 4 |
| 5 | | 0.780 S | 15 | 1.01 | | 2.03 | 17 S | 2.98 | | 6.71 | 5 | 2.90 | 5 |
| 6 | | 0.880 S | 8 | 0.78 | | 4.80 | 18 | 7.00 | | 3.78 | 4 | 1.31 | 6 |
| 7 | | 8.70 | 33 S | 27.7 | | 1.74 | 3 S | 0.30 | | 2.58 | 3 | 0.67 | 7 |
| 8 | | 3.87 | 11 | 3.48 | 1.0 | 1.17 | 3 S | 0.30 | | 2.01 | 5 | 0.47 | 8 |
| 9 | | 2.78 | 8 S | 1.83 | | 3.15 | 15 | 4.08 | 0.5 | 1.70 | 5 S | 0.73 | 9 |
| 10 | | 1.37 | 8 | 0.91 | | 3.15 | 12 S | 3.28 | | 1.58 | 2 S | 0.27 | 10 |
| 11 | | 1.33 | 5 | 0.53 | 1.5 | 1.53 | 3 S | 0.42 | | 1.46 | 1 | 0.13 | 11 |
| 12 | | 2.61 | 18 S | 4.08 | | 1.13 | 3 S | 0.30 | | 2.22 | 9 S | 1.73 | 12 |
| 13 | | 4.86 | 15 S | 5.99 | | 0.844 | 6 | 0.44 | | 8.20 | 36 S | 25.6 | 13 |
| 14 | | 8.27 | 23 S | 12.6 | | 0.735 S | 6 S | 0.38 | 1.5 | 8.63 | 10 S | 7.83 | 14 |
| 15 | | 8.73 | 26 | 18.8 | 0.5 | 0.840 S | 3 S | 0.11 | | 8.64 | 11 S | 8.31 | 15 |
| 16 | | 3.35 | 10 | 2.89 | | 0.880 S | 3 | 0.10 | | 3.44 | 5 S | 1.78 | 16 |
| 17 | | 8.43 | 21 | 11.8 | | 0.860 S | 1 S | 0.05 | | 3.43 | 4 | 0.84 | 17 |
| 18 | | 5.81 | 9 | 4.36 | | 0.800 S | 1 | 0.05 | | 3.19 | 8 S | 0.83 | 18 |
| 19 | | 3.76 | 7 | 2.29 | | 0.685 S | 2 S | 0.08 | | 2.43 | 9 | 1.08 | 19 |
| 20 | | 3.45 | 8 | 1.06 | | 0.660 S | 3 | 0.08 | | 2.73 | 8 S | 1.48 | 20 |
| 21 | | 1.83 | 4 | 0.66 | | 0.630 S | 12 S | 0.65 | | 11.7 | 48 S | 48.5 | 21 |
| 22 | | 1.21 | 5 | 0.52 | | 0.610 S | 3 S | 0.11 | | 8.04 | 19 | 8.67 | 22 |
| 23 | | 1.30 | 4 | 0.41 | | 0.590 S | 3 | 0.10 | | 8.87 | 24 | 18.6 | 23 |
| 24 | | 1.34 | 8 | 0.88 | | 0.575 S | 3 S | 0.06 | | 8.87 | 13 | 7.69 | 24 |
| 25 | 1.0 | 3.66 | 14 S | 3.48 | | 0.580 S | 7 | 0.33 | | 3.81 | 7 | 2.36 | 25 |
| 26 | | 1.75 | 3 | 0.49 | | 0.580 S | 4 S | 0.18 | | 11.4 | 32 | 31.5 | 26 |
| 27 | | 1.26 | 2 | 0.31 | | 0.670 | 6 S | 0.43 | | 6.15 | 11 | 5.64 | 27 |
| 28 | | 0.893 | 7 | 0.18 | 0.5 | 1.18 | 4 S | 0.41 | | 3.19 | 7 | 1.92 | 28 |
| 29 | | 0.760 S | 3 | 0.13 | | | | | | 3.43 | 8 | 1.26 | 29 |
| 30 | | 0.650 S | 2 | 0.11 | | | | | | 3.19 | 5 | 0.83 | 30 |
| 31 | 0.5 | 0.600 S | 1 S | 0.05 | | | | | 0.5 | 1.68 | 4 S | 0.65 | 31 |
| TOTAL | | 93.543 | | 193.39 | | 33.145 | | 34.37 | | 193.39 | | 355.47 | TOTAL |
| MEAN | | 3.65 | | 3.90 | | 1.18 | | 0.57 | | 6.81 | | 8.34 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.58 | 4 | 0.55 | | 1.07 | 17 | 1.87 | | 0.730 | 3 | 0.19 | 1 |
| 2 | | 1.57 | 3 | 0.41 | | 1.06 | 13 S | 1.17 | | 1.32 | 28 S | 3.31 | 2 |
| 3 | | 3.08 | 10 | 2.87 | | 1.07 | 14 S | 1.38 | 10.5 | 1.79 | 13 S | 1.88 | 3 |
| 4 | | 3.08 | 10 | 2.88 | | 1.38 | 15 | 1.75 | | 1.05 | 8 S | 0.84 | 4 |
| 5 | | 2.61 | 9 | 2.19 | | 1.13 | 13 S | 1.17 | | 1.89 | 15 | 2.19 | 5 |
| 6 | | 6.05 | 13 S | 6.80 | 13.0 | 1.13 | 10 S | 0.98 | | 1.98 | 8 S | 1.33 | 6 |
| 7 | | 3.27 | 8 | 1.70 | | 1.14 | 10 S | 0.88 | | 1.14 | 8 S | 0.89 | 7 |
| 8 | 4.0 | 2.35 | 3 S | 0.66 | | 0.826 | 9 | 0.72 | | 1.37 | 10 | 1.18 | 8 |
| 9 | | 2.07 | 6 | 0.72 | | 1.43 | 10 S | 1.24 | | 1.35 | 8 S | 1.07 | 9 |
| 10 | | 1.80 | 6 | 0.83 | | 1.78 | 8 S | 1.23 | 17.5 | 0.830 | 5 S | 0.40 | 10 |
| 11 | | 1.52 | 6 | 0.83 | | 1.83 | 8 | 1.13 | | 3.81 | 48 S | 16.1 | 11 |
| 12 | | 3.30 | 8 S | 1.71 | | 1.35 | 8 | 0.88 | | 3.02 | 42 | 11.0 | 12 |
| 13 | | 7.32 | 14 S | 8.85 | | 1.54 | 14 | 1.88 | | 1.58 | 36 S | 3.59 | 13 |
| 14 | | 4.74 | 8 S | 3.89 | | 1.66 | 14 S | 1.76 | 5.5 | 1.24 | 8 S | 0.86 | 14 |
| 15 | 4.5 | 2.86 | 8 S | 1.85 | | 2.83 | 19 | 4.32 | | 1.16 | 3 | 0.30 | 15 |
| 16 | | 2.19 | 10 S | 1.89 | | 2.42 | 16 S | 3.36 | | 1.04 | 3 | 0.27 | 16 |
| 17 | | 1.86 | 11 | 1.86 | | 1.56 | 11 S | 1.50 | | 0.818 | 3 | 0.24 | 17 |
| 18 | | 2.68 | 18 S | 4.73 | | 1.43 | 11 | 1.36 | | 0.874 | 5 S | 0.38 | 18 |
| 19 | | 3.83 | 33 S | 7.89 | | 1.18 | 12 S | 1.33 | | 0.780 | 5 | 0.84 | 19 |
| 20 | | 7.68 | 41 S | 27.1 | | 0.830 | 13 | 1.03 | | 0.753 | 15 S | 1.03 | 20 |
| 21 | 14.0 | 4.08 | 36 S | 13.4 | | 0.817 | 14 S | 0.98 | | 0.748 | 19 S | 1.23 | 21 |
| 22 | | 3.86 | 30 | 7.41 | | 0.845 | 16 S | 1.17 | | 0.850 | 16 | 1.18 | 22 |
| 23 | | 3.70 | 18 S | 4.20 | | 0.878 | 16 S | 1.37 | 18.0 | 0.713 | 15 S | 0.82 | 23 |
| 24 | | 3.47 | 31 | 6.48 | | 0.883 | 16 S | 1.37 | | 0.684 | 9 | 0.83 | 24 |
| 25 | | 3.00 | 18 S | 3.38 | 8.5 | 0.750 | 15 S | 0.97 | | 0.616 | 9 S | 0.32 | 25 |
| 26 | | 1.88 | 14 S | 2.04 | | 0.730 | 10 S | 0.63 | | 0.735 | 9 | 0.57 | 26 |
| 27 | | 1.46 | 13 | 1.85 | | 0.885 | 8 | 0.66 | | 0.684 | 9 S | 0.53 | 27 |
| 28 | | 1.90 | 16 | 1.30 | | 0.854 | 6 | 0.36 | | 0.640 | 9 S | 0.80 | 28 |
| 29 | 11.5 | 1.43 | 5 S | 0.82 | | 1.06 | 11 | 1.01 | | 0.557 | 8 | 0.43 | 29 |
| 30 | | 1.20 | 14 S | 1.48 | | 1.05 | 8 | 0.73 | 18.0 | 0.469 | 9 S | 0.38 | 30 |
| 31 | | | | | 10.0 | 0.765 | 3 S | 0.20 | | | | | 31 |
| TOTAL | | 88.98 | | 116.84 | | 37.338 | | 38.73 | | 34.931 | | 53.74 | TOTAL |
| MEAN | | 2.97 | | 3.95 | | 1.20 | | 1.26 | | 1.16 | | 1.79 | MEAN |

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH003

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.435 | 8 | 0.30 | | 0.574 | 10 E | 0.94 | | 1.14 | 30 | 1.87 | 1 |
| 2 | | 0.408 | 9 E | 0.32 | | 0.520 | 20 E | 0.90 | 13.0 | 12.5 | 44 E | 47.5 | 2 |
| 3 | | 0.731 | 10 | 0.63 | | 0.544 | 19 | 0.89 | | 3.91 | 16 E | 5.41 | 3 |
| 4 | | 0.814 | 9 E | 0.33 | | 0.541 | 15 E | 0.85 | | 3.87 | 15 | 5.15 | 4 |
| 5 | | 0.511 | 8 E | 0.36 | | 0.940 | 30 | 1.11 | | 3.00 | 11 | 1.80 | 5 |
| 6 | | 0.447 | 8 | 0.23 | | 0.529 | 15 E | 0.73 | | 1.32 | 10 | 1.14 | 6 |
| 7 | | 0.408 | 5 E | 0.18 | | 0.501 | 15 | 0.85 | | 0.966 | 8 | 0.67 | 7 |
| 8 | | 1.41 | 14 | 1.71 | | 0.535 | 24 E | 1.11 | | 0.602 | 8 E | 0.55 | 8 |
| 9 | | 0.633 | 8 E | 0.57 | | 0.493 | 23 E | 0.98 | | 0.693 | 7 | 0.42 | 9 |
| 10 | | 0.648 | 8 | 0.36 | | 0.521 | 22 | 0.98 | | 2.25 | 19 E | 3.30 | 10 |
| 11 | | 0.784 | 7 E | 0.46 | | 0.560 | 15 E | 0.70 | | 3.36 | 15 | 3.06 | 11 |
| 12 | 19.5 | 0.837 | 9 E | 0.68 | 15.5 | 0.481 | 5 E | 0.19 | 14.0 | 1.15 | 13 E | 1.28 | 12 |
| 13 | | 0.748 | 8 | 0.58 | | 1.35 | 31 | 3.84 | | 0.757 | 10 E | 0.66 | 13 |
| 14 | | 0.801 | 9 E | 0.67 | | 0.970 | 27 | 2.35 | | 1.10 | 11 | 1.05 | 14 |
| 15 | 20.5 | 0.887 | 10 E | 0.69 | | 0.660 | 23 E | 1.31 | | 4.84 | 18 E | 7.32 | 15 |
| 16 | | 1.10 | 11 E | 1.05 | | 0.666 | 26 E | 1.99 | | 4.68 | 8 E | 1.94 | 16 |
| 17 | | 1.27 | 12 | 1.32 | | 3.43 | 45 | 13.3 | | 1.73 | 5 | 0.75 | 17 |
| 18 | | 1.03 | 8 E | 0.71 | | 1.24 | 25 E | 2.66 | | 1.13 | 5 | 0.49 | 18 |
| 19 | | 0.845 | 7 E | 0.32 | | 0.883 | 31 | 1.90 | | 0.875 | 5 E | 0.42 | 19 |
| 20 | | 0.648 | 7 | 0.33 | | 2.47 | 37 | 7.90 | | 0.606 | 5 E | 0.35 | 20 |
| 21 | | 0.491 | 8 | 0.33 | | 2.35 | 35 | 5.06 | 12.5 | 0.851 | 5 E | 0.38 | 21 |
| 22 | 20.5 | 0.497 | 10 E | 0.40 | | 1.71 | 8 | 1.18 | | 0.884 | 5 E | 0.34 | 22 |
| 23 | | 3.01 | 35 E | 9.05 | 14.5 | 1.19 | 6 E | 0.82 | | 0.833 | 5 | 0.37 | 23 |
| 24 | | 0.888 | 21 | 1.78 | | 1.01 | 7 | 0.61 | | 1.28 | 27 E | 3.01 | 24 |
| 25 | 18.5 | 1.61 | 24 E | 3.34 | | 0.834 | 8 | 0.63 | | 0.886 | 8 | 0.77 | 25 |
| 26 | | 2.42 | 34 E | 7.11 | | 0.718 | 6 | 0.31 | 13.0 | 0.885 | 7 E | 0.61 | 26 |
| 27 | | 1.41 | 24 | 2.82 | | 0.889 | 5 E | 0.35 | | 0.838 | 7 E | 0.33 | 27 |
| 28 | | 0.886 | 30 E | 1.70 | | 2.84 | 33 | 7.36 | | 0.681 | 7 | 0.38 | 28 |
| 29 | | 0.778 | 18 | 1.21 | | 1.62 | 16 E | 1.88 | | 0.603 | 7 E | 0.34 | 29 |
| 30 | | 0.680 | 17 E | 1.00 | | 1.08 | 8 | 0.85 | | 0.800 | 18 | 1.40 | 30 |
| 31 | | 0.857 | 18 | 0.81 | 15.0 | 0.891 | 8 E | 0.68 | | | | | 31 |
| TOTAL | | 35.937 | | 37.99 | | 33.058 | | 64.40 | | 55.643 | | 82.55 | TOTAL |
| MEAN | | 0.869 | | 1.23 | | 1.07 | | 2.08 | | 1.86 | | 3.08 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.603 | 15 | 0.78 | | 1.85 | 7 | 1.11 | | 2.25 | 23 E | 4.47 | 1 |
| 2 | | 0.594 | 14 | 0.72 | | 1.84 | 7 | 0.93 | | 1.62 | 18 | 2.58 | 2 |
| 3 | | 0.659 | 14 | 1.04 | | 1.38 | 8 | 0.73 | | 1.36 | 16 E | 2.12 | 3 |
| 4 | | 0.686 | 13 | 0.77 | 5.0 | 1.30 | 5 E | 0.52 | | 1.44 | 18 | 1.88 | 4 |
| 5 | | 0.493 | 12 | 0.51 | | 1.04 | 5 | 0.47 | | 1.26 | 8 E | 0.89 | 5 |
| 6 | | 0.417 | 11 | 0.40 | | 0.852 | 4 | 0.33 | | 1.05 | 8 E | 0.54 | 6 |
| 7 | 14.0 | 0.736 | 18 E | 1.21 | | 1.78 | 8 | 1.36 | | 1.07 | 7 | 0.66 | 7 |
| 8 | | 0.633 | 15 | 0.69 | 7.5 | 2.31 | 8 E | 1.53 | | 3.76 | 20 E | 8.62 | 8 |
| 9 | | 0.614 | 13 | 0.67 | 5.5 | 1.33 | 8 E | 0.95 | | 1.87 | 14 | 2.36 | 9 |
| 10 | | 0.548 | 13 | 0.58 | | 1.33 | 7 E | 0.80 | | 1.40 | 12 E | 1.65 | 10 |
| 11 | | 0.334 | 12 | 0.35 | | 1.01 | 8 | 0.82 | | 1.10 E | 14 | 1.33 | 11 |
| 12 | | 0.297 | 13 | 0.31 | | 2.04 | 15 E | 3.36 | | 0.811 | 14 | 1.10 | 12 |
| 13 | | 0.271 | 11 | 0.25 | | 2.03 | 20 | 3.81 | | 1.04 | 13 E | 1.17 | 13 |
| 14 | | 0.284 | 11 | 0.26 | | 1.46 | 14 J | 0.36 | | 1.71 | 15 | 2.22 | 14 |
| 15 | | 1.68 | 23 | 3.19 | | 1.14 | 14 E | 1.36 | | 3.28 | 23 E | 6.52 | 15 |
| 16 | | 0.921 | 15 | 1.27 | | 0.921 | 12 | 0.95 | | 2.65 | 21 | 4.81 | 16 |
| 17 | | 0.824 | 13 | 0.70 | | 0.610 | 11 E | 0.77 | | 2.07 | 19 E | 3.40 | 17 |
| 18 | | 0.487 | 12 | 0.50 | | 14.5 E | 46 3 | 58.0 | | 1.83 | 18 | 2.38 | 18 |
| 19 | | 0.593 | 12 | 0.85 | | 7.50 E | 16 | 12.5 | | 0.886 | 12 E | 1.00 | 19 |
| 20 | 9.0 | 5.60 | 28 E | 14.0 | | 2.85 | 16 | 3.96 | | 0.816 | 8 | 0.56 | 20 |
| 21 | | 3.06 | 16 | 3.53 | | 2.43 | 12 | 2.53 | | 0.703 | 8 | 0.48 | 21 |
| 22 | | 1.31 | 12 | 1.35 | | 2.13 | 11 | 2.02 | 0.5 | 0.660 E | 8 E | 0.46 | 22 |
| 23 | | 6.20 | 42 | 22.5 | 5.5 | 2.30 | 10 E | 1.99 | | 0.635 E | 8 | 0.43 | 23 |
| 24 | 5.0 | 5.56 | 26 E | 12.5 | 4.0 | 3.03 | 9 E | 1.98 | | 0.800 E | 8 E | 0.61 | 24 |
| 25 | | 2.17 | 11 | 2.06 | | 1.84 | 9 | 1.36 | | 0.673 | 7 | 0.53 | 25 |
| 26 | | 16.8 | 49 | 79.5 | | 2.36 | 13 | 2.85 | | 0.646 | 7 E | 0.51 | 26 |
| 27 | 5.5 | 9.06 | 11 E | 8.81 | | 1.87 | 14 | 2.35 | | 0.603 | 7 E | 0.48 | 27 |
| 28 | | 5.37 | 16 | 8.81 | | 1.63 | 14 E | 2.31 | | 0.739 | 8 | 0.58 | 28 |
| 29 | | 6.20 | 12 | 6.39 | | 1.48 | 15 E | 1.92 | | 1.86 | 30 E | 4.16 | 29 |
| 30 | | 3.83 | 9 | 3.74 | | 2.61 | 23 | 4.99 | | 7.39 | 25 E | 16.0 | 30 |
| 31 | | 2.38 | 8 | 1.85 | | | | | | 3.88 | 14 | 4.46 | 31 |
| TOTAL | | 79.356 | | 177.30 | | 89.773 | | 114.85 | | 53.190 | | 81.38 | TOTAL |
| MEAN | | 2.56 | | 5.72 | | 2.33 | | 3.87 | | 1.88 | | 2.63 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD : 1 192 71 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 16 | |
| MAXIMUM DAILY | 46 | 03 MAR 21 |
| MINIMUM DAILY | 1 | 03 JAN 31 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 3.21 | |
| MAXIMUM DAILY | 79.5 | 03 OCT 26 |
| MINIMUM DAILY | 0.04 | 03 FEB 19 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 47 21 47 0
LONG 53 44 34 W
DRAINAGE AREA 53.7 $km^2$
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

# NORTHWEST TERRITORIES

## LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 530 B | | | | 400 B | | | | 308 B | | | 1 |
| 2 | | 525 B | | | | 395 B | | | | 301 B | | | 2 |
| 3 | | 520 B | | | | 394 B | | | | 300 B | | | 3 |
| 4 | | 515 B | | | | 386 B | | | | 300 B | | | 4 |
| 5 | | 510 B | | | | 383 B | | | | 298 B | | | 5 |
| 6 | | 505 B | | | | 380 B | | | | 295 B | | | 6 |
| 7 | | 502 B | | | | 376 B | | | | 293 B | | | 7 |
| 8 | | 500 B | | | | 372 B | | | | 291 B | | | 8 |
| 9 | | 495 B | | | | 370 B | | | | 290 B | | | 9 |
| 10 | | 490 B | | | | 367 B | | | | 290 B | | | 10 |
| 11 | | 485 B | | | | 362 B | | | | 286 B | | | 11 |
| 12 | | 480 B | | | | 360 B | | | | 285 B | | | 12 |
| 13 | | 475 B | | | | 358 B | | | | 285 B | | | 13 |
| 14 | | 470 B | | | | 353 B | | | | 282 B | | | 14 |
| 15 | | 465 B | | | | 350 B | | | | 280 B | | | 15 |
| 16 | | 460 B | | | | 348 B | | | | 280 B | | | 16 |
| 17 | | 460 B | | | | 344 B | | | | 280 B | | | 17 |
| 18 | | 455 B | | | | 341 B | | | | 278 B | | | 18 |
| 19 | | 450 B | | | | 338 B | | | | 278 B | | | 19 |
| 20 | | 445 B | | | | 335 B | | | | 275 B | | | 20 |
| 21 | | 440 B | | | | 331 B | | | | 273 B | | | 21 |
| 22 | | 435 B | | | | 328 B | | | | 272 B | | | 22 |
| 23 | | 438 B | | | | 325 B | | | | 271 B | | | 23 |
| 24 | | 430 B | | | | 322 B | | | | 270 B | | | 24 |
| 25 | | 425 B | | | | 320 B | | | | 269 B | | | 25 |
| 26 | | 420 B | | | | 318 B | | | | 268 B | | | 26 |
| 27 | | 420 B | | | | 315 B | | | | 266 B | | | 27 |
| 28 | | 415 B | | | | 310 B | | | | 266 B | | | 28 |
| 29 | | 410 B | | | | | | | | 265 B | | | 29 |
| 30 | | 405 B | | | | | | | | 264 B | | | 30 |
| 31 | | 400 B | | | | | | | | 262 B | | | 31 |
| TOTAL | | 14 372 | | | | 8 681 | | | | 8 717 | | | TOTAL |
| MEAN | | 464 | | | | 303 | | | | 281 | | | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 262 B | | | | 2 100 B | 583 | 106 000 | | 5 100 | 883 | 282 000 | 1 |
| 2 | | 262 B | | | | 2 500 B | 519 | 112 000 | | 5 670 | 1 010 | 495 000 | 2 |
| 3 | | 261 B | | | | 3 000 B | 443 | 115 000 | 12.0 | 6 480 | 1 370 S | 767 000 | 3 |
| 4 | | 261 B | | | 1.0 | 3 600 B | 370 S | 115 000 | | 7 530 | 1 870 | 1 090 000 | 4 |
| 5 | | 261 B | | | | 4 200 B | 300 | 109 000 | | 8 280 | 1 840 | 1 170 000 | 5 |
| 6 | | 261 B | | | 2.0 | 4 000 B | 231 S | 78 800 | 12.0 | 6 110 | 1 310 S | 918 000 | 6 |
| 7 | | 261 B | | | | 3 850 B | 187 | 55 800 | | 7 410 | 860 | 615 000 | 7 |
| 8 | | 263 B | | | | 3 700 B | 122 | 39 000 | | 6 710 | 721 | 416 000 | 8 |
| 9 | | 264 B | | | | 3 600 B | 119 | 37 000 | | 6 130 | 558 | 296 000 | 9 |
| 10 | | 266 B | | | | 3 500 B | 184 | 48 800 | 12.0 | 5 760 | 466 S | 232 000 | 10 |
| 11 | | 268 B | | | | 3 850 B | 211 | 68 500 | | 5 500 | 413 | 196 000 | 11 |
| 12 | | 272 B | | | | 3 800 B | 264 | 83 200 | | 5 330 | 368 | 168 000 | 12 |
| 13 | | 276 B | | | | 3 870 A | 402 | 138 000 | 14.0 | 5 280 | 241 S | 165 000 | 13 |
| 14 | | 280 B | | | | 3 800 E | 525 | 177 000 | | 5 320 | 375 | 172 000 | 14 |
| 15 | | 290 B | | | | 3 650 E | 640 | 213 000 | | 5 490 | 420 | 198 000 | 15 |
| 16 | | 305 B | | | | 3 630 E | 685 | 220 000 | | 5 650 | 461 | 225 000 | 16 |
| 17 | | 330 B | | | 6.0 | 3 810 A | 616 S | 203 000 | | 5 650 | 471 S | 230 000 | 17 |
| 18 | | 360 B | | | | 3 820 | 537 | 177 000 | | 5 520 | 448 | 214 000 | 18 |
| 19 | | 395 B | | | | 3 850 | 484 | 164 000 | | 5 370 | 435 | 202 000 | 19 |
| 20 | | 435 B | | | 8.0 | 3 900 B | 398 S | 134 000 | 15.0 | 5 320 | 421 S | 194 000 | 20 |
| 21 | | 480 B | | | | 4 000 B | 391 | 135 000 | | 5 520 | 583 | 278 000 | 21 |
| 22 | | 505 B | | | | 4 250 | 395 | 145 000 | | 6 080 | 1 200 | 631 000 | 22 |
| 23 | | 554 B | | | | 4 220 | 394 | 144 000 | | 6 600 | 1 610 | 1 030 000 | 23 |
| 24 | | 630 B | | | 8.5 | 4 010 | 396 S | 137 000 | 15.0 | 6 580 | 1 770 S | 1 010 000 | 24 |
| 25 | | 710 B | | | | 3 780 | 378 | 124 000 | | 6 130 | 1 500 | 837 000 | 25 |
| 26 | | 815 B | | | | 3 850 | 370 | 123 000 | | 5 760 | 1 420 | 705 000 | 26 |
| 27 | | 1 000 B | | | | 4 020 | 380 | 128 000 | | 5 580 | 1 340 | 644 000 | 27 |
| 28 | | 1 200 B | | | | 4 180 | 380 | 128 000 | | 5 420 | 1 280 | 600 000 | 28 |
| 29 | | 1 450 B | | | | 4 100 | 321 | 114 000 | | 5 150 | 1 070 | 478 000 | 29 |
| 30 | | 1 750 B | | | 13.0 | 4 080 | 301 S | 108 000 | | 4 810 | 872 | 370 000 | 30 |
| 31 | | | | | | 4 490 | 374 | 145 000 | | | | | 31 |
| TOTAL | | 14 931 | | | | 117 430 | | 3 816 700 | | 178 300 | | 14 820 000 | TOTAL |
| MEAN | | 498 | | | | 3 788 | | 123 000 | | 5 950 | | 494 000 | MEAN |

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4 870 | 859 | 368 000 | | 3 830 | 1 080 | 380 000 | | 2 220 | 77 | 14 800 | 1 |
| 2 | | 4 380 | 490 | 186 000 | 18.0 | 3 800 | 1 020 S | 335 000 | 15.0 | 2 140 | 74 S | 13 700 | 2 |
| 3 | | 4 180 | 381 | 137 000 | | 4 040 | 972 | 338 000 | | 2 070 | 70 | 12 800 | 3 |
| 4 | | 3 880 | 282 | 87 000 | | 4 280 | 787 | 285 000 | | 1 880 | 65 | 11 100 | 4 |
| 5 | 20.0 | 3 690 | 228 S | 76 800 | | 4 130 | 578 | 207 000 | | 1 820 | 61 | 10 100 | 5 |
| 6 | | 3 810 | 281 | 88 200 | | 3 830 | 432 | 143 000 | | 1 890 | 59 | 9 140 | 6 |
| 7 | | 4 030 | 287 | 103 000 | | 3 810 | 328 | 89 800 | 11.0 | 1 880 | 56 S | 9 420 | 7 |
| 8 | 18.0 | 4 080 | 333 S | 117 000 | 17.0 | 3 380 | 268 S | 78 800 | | 1 900 | 54 | 8 880 | 8 |
| 9 | | 4 080 | 347 | 122 000 | | 3 010 | 234 | 80 900 | | 2 000 | 51 | 8 810 | 9 |
| 10 | | 4 000 | 335 | 118 000 | | 2 780 | 202 | 48 500 | | 2 080 | 51 | 9 170 | 10 |
| 11 | | 3 870 | 320 | 107 000 | | 2 580 | 158 | 37 400 | | 2 080 | 49 | 8 810 | 11 |
| 12 | 17.0 | 3 840 | 288 S | 80 900 | | 2 420 | 136 | 28 400 | | 2 080 | 48 | 8 540 | 12 |
| 13 | | 3 410 | 238 | 70 400 | | 2 300 | 118 | 23 400 | | 2 010 | 48 | 8 510 | 13 |
| 14 | 17.0 | 3 200 | 186 S | 54 200 | | 2 250 | 111 | 21 800 | | 1 940 | 47 | 7 880 | 14 |
| 15 | | 3 050 | 178 | 46 900 | 16.0 | 2 310 | 110 S | 22 000 | | 1 880 | 47 | 7 580 | 15 |
| 16 | | 2 930 | 166 | 42 800 | | 2 380 | 112 | 22 700 | | 1 780 | 47 | 7 230 | 16 |
| 17 | | 2 830 | 159 | 38 900 | | 2 320 | 110 | 22 000 | | 1 720 | 46 | 6 840 | 17 |
| 18 | 17.0 | 2 880 | 143 S | 33 100 | | 2 240 | 110 | 21 300 | | 1 670 | 45 | 6 490 | 18 |
| 19 | | 2 580 | 131 | 29 000 | | 2 180 | 113 | 21 400 | | 1 650 | 46 | 6 700 | 19 |
| 20 | | 2 480 | 121 | 25 700 | | 2 180 | 114 | 21 500 | | 1 620 | 39 | 5 480 | 20 |
| 21 | | 2 380 | 107 | 22 100 | | 2 200 | 114 | 21 700 | 8.0 | 1 600 | 38 S | 4 880 | 21 |
| 22 | 16.0 | 2 340 | 104 S | 21 000 | 16.0 | 2 290 | 115 S | 22 600 | | 1 570 | 34 | 4 610 | 22 |
| 23 | | 2 350 | 84 | 17 100 | | 2 370 | 111 | 22 700 | | 1 510 | 34 | 4 440 | 23 |
| 24 | | 2 480 | 63 | 13 400 | | 2 380 | 108 | 22 200 | | 1 480 | 35 | 4 420 | 24 |
| 25 | 18.0 | 2 750 | 140 S | 33 300 | | 2 380 | 105 | 21 700 | | 1 440 | 38 | 4 480 | 25 |
| 26 | | 2 980 | 203 | 52 400 | | 2 420 | 100 | 20 800 | | 1 440 | 38 | 4 730 | 26 |
| 27 | | 3 080 | 220 | 58 000 | | 2 430 | 98 | 20 600 | | 1 480 | 37 | 4 730 | 27 |
| 28 | | 3 040 | 213 | 54 100 | | 2 420 | 98 | 20 100 | | 1 490 | 35 | 4 610 | 28 |
| 29 | 18.5 | 2 820 | 202 S | 49 200 | | 2 380 | 90 | 18 500 | | 1 490 | 33 | 4 280 | 29 |
| 30 | | 2 850 | 231 | 56 800 | | 2 340 | 82 | 18 600 | | 1 480 | 32 | 4 040 | 30 |
| 31 | | 3 440 | 763 | 227 000 | | 2 300 | 79 | 15 700 | | | | | 31 |
| TOTAL | | 102 180 | | 2 482 200 | | 85 640 | | 2 438 900 | | 53 410 | | 228 800 | TOTAL |
| MEAN | | 3 300 | | 79 100 | | 2 760 | | 78 600 | | 1 780 | | 7 530 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 420 | 33 | 4 080 | | 705 B | | | | 315 B | | | 1 |
| 2 | | 1 370 | 32 | 3 780 | | 695 B | | | | 315 B | | | 2 |
| 3 | | 1 320 | 30 | 3 420 | | 690 B | | | | 320 B | | | 3 |
| 4 | | 1 280 | 28 | 3 230 | | 680 B | | | | 328 B | | | 4 |
| 5 | | 1 270 | 25 | 3 180 | | 675 B | | | | 336 B | | | 5 |
| 6 | | 1 280 | 26 | 2 840 | | 685 B | | | | 350 B | | | 6 |
| 7 | | 1 300 | 22 | 3 470 | | 680 B | | | | 380 B | | | 7 |
| 8 | | 1 320 | 21 | 2 400 | | 685 B | | | | 370 B | | | 8 |
| 9 | | 1 320 | 21 | 2 400 | | 690 B | | | | 385 B | | | 9 |
| 10 | | 1 290 | 20 | 2 230 | | 640 B | | | | 395 B | | | 10 |
| 11 | | 1 270 | 20 | 2 180 | | 630 B | | | | 405 B | | | 11 |
| 12 | 3.0 | 1 230 | 20 B | 2 130 | | 620 B | | | | 418 B | | | 12 |
| 13 | | 1 170 | 20 E | 2 020 | | 615 B | | | | 426 B | | | 13 |
| 14 | | 1 120 | 20 E | 1 940 | | 605 B | | | | 440 B | | | 14 |
| 15 | | 1 080 | 19 E | 1 780 | | 590 B | | | | 450 B | | | 15 |
| 16 | | 1 070 | 19 E | 1 780 | | 575 B | | | | 465 B | | | 16 |
| 17 | | 1 080 | 18 E | 1 850 | | 560 B | | | | 480 B | | | 17 |
| 18 | | 1 040 | 18 E | 1 820 | | 540 B | | | | 485 B | | | 18 |
| 19 | | 1 010 | 17 E | 1 480 | | 520 B | | | | 470 B | | | 19 |
| 20 | | 940 | 17 E | 1 380 | | 500 B | | | | 477 B | | | 20 |
| 21 | | 905 | 16 E | 1 350 | | 480 B | | | | 485 B | | | 21 |
| 22 | | 848 | 16 E | 1 170 | | 460 B | | | | 485 B | | | 22 |
| 23 | | 805 | 16 E | 1 040 | | 435 B | | | | 445 B | | | 23 |
| 24 | | 810 B | 16 E | 1 050 | | 400 B | | | | 435 B | | | 24 |
| 25 | | 800 B | 14 E | 988 | | 370 B | | | | 425 B | | | 25 |
| 26 | | 790 B | 14 E | 958 | | 350 B | | | | 415 B | | | 26 |
| 27 | | 781 B | 13 E | 877 | | 330 B | | | | 410 B | | | 27 |
| 28 | | 785 B | 13 E | 883 | | 320 B | | | | 400 B | | | 28 |
| 29 | | 746 B | 12 E | 773 | | 318 B | | | | 390 B | | | 29 |
| 30 | | 730 B | 12 E | 757 | | 315 B | | | | 385 B | | | 30 |
| 31 | | 710 B | 11 E | 678 | | | | | | 380 B | | | 31 |
| TOTAL | | 32 850 | | 58 409 | | 16 225 | | | | 12 583 | | | TOTAL |
| MEAN | | 1 090 | | 1 880 | | 541 | | | | 405 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 61 44 50 N
LONG 121 13 25 W
DRAINAGE AREA 277 000 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NORTHWEST TERRITORIES

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JUN 03 | 13:20 | 6 480 M | 13.0 | 1 390 K | 15 | 19 | 28 | 42 | 55 | 75 | 90 | 97 | 99 | 100 | | BNW |
| JUN 24 | 09:00 | 5 580 M | 15.0 | 1 800 K | 25 | 34 | 48 | 68 | 83 | 90 | 94 | 98 | 100 | | | BNW |
| AUG 02 | 08:40 | 3 800 M | 18.0 | 1 030 K | 40 | 56 | 64 | 73 | 84 | 90 | 95 | 98 | 100 | | | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3 530 B | | | | 3 300 B | | | | 3 070 B | | | 1 |
| 2 | | 3 520 B | | | | 3 300 B | | | | 3 060 B | | | 2 |
| 3 | | 3 510 B | | | | 3 290 B | | | | 3 040 B | | | 3 |
| 4 | | 3 500 B | | | | 3 280 B | | | | 3 030 B | | | 4 |
| 5 | | 3 490 B | | | | 3 280 B | | | | 3 020 B | | | 5 |
| 6 | | 3 480 B | | | | 3 280 B | | | | 3 010 B | | | 6 |
| 7 | | 3 480 B | | | | 3 280 B | | | | 3 000 B | | | 7 |
| 8 | | 3 470 B | | | | 3 270 B | | | | 2 990 B | | | 8 |
| 9 | | 3 480 B | | | | 3 260 B | | | | 2 980 B | | | 9 |
| 10 | | 3 480 B | | | | 3 250 B | | | | 2 970 B | | | 10 |
| 11 | | 3 440 B | | | | 3 230 B | | | | 2 960 B | | | 11 |
| 12 | | 3 430 B | | | | 3 220 B | | | | 2 950 B | | | 12 |
| 13 | | 3 420 B | | | | 3 210 B | | | | 2 940 B | | | 13 |
| 14 | | 3 410 B | | | | 3 210 B | | | | 2 930 B | | | 14 |
| 15 | | 3 410 B | | | | 3 200 B | | | | 2 920 B | | | 15 |
| 16 | | 3 400 B | | | | 3 200 B | | | | 2 910 B | | | 16 |
| 17 | | 3 400 B | | | | 3 190 B | | | | 2 900 B | | | 17 |
| 18 | | 3 400 B | | | | 3 180 B | | | | 2 890 B | | | 18 |
| 19 | | 3 400 B | | | | 3 170 B | | | | 2 890 B | | | 19 |
| 20 | | 3 390 B | | | | 3 160 B | | | | 2 880 B | | | 20 |
| 21 | | 3 390 B | | | | 3 150 B | | | | 2 870 B | | | 21 |
| 22 | | 3 380 B | | | | 3 140 B | | | | 2 860 B | | | 22 |
| 23 | | 3 380 B | | | | 3 130 B | | | | 2 850 B | | | 23 |
| 24 | | 3 370 B | | | | 3 120 B | | | | 2 840 B | | | 24 |
| 25 | | 3 360 B | | | | 3 110 B | | | | 2 830 B | | | 25 |
| 26 | | 3 350 B | | | | 3 110 B | | | | 2 820 B | | | 26 |
| 27 | | 3 340 B | | | | 3 100 B | | | | 2 820 B | | | 27 |
| 28 | | 3 330 B | | | | 3 090 B | | | | 2 810 B | | | 28 |
| 29 | | 3 330 B | | | | | | | | 2 800 B | | | 29 |
| 30 | | 3 320 B | | | | | | | | 2 800 B | | | 30 |
| 31 | | 3 310 B | | | | | | | | 2 790 B | | | 31 |
| TOTAL | | 108 860 | | | | 88 730 | | | | 90 430 | | | TOTAL |
| MEAN | | 3 410 | | | | 3 200 | | | | 2 920 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 790 B | | | | 3 560 B | | | | 28 300 B | | | 1 |
| 2 | | 2 780 B | | | | 4 140 B | | | | 28 000 B | | | 2 |
| 3 | | 2 780 B | | | | 5 200 B | | | | 28 800 B | | | 3 |
| 4 | | 2 770 B | | | | 6 200 B | | | | 28 300 B | | | 4 |
| 5 | | 2 770 B | | | | 5 780 B | | | | 27 800 E | | | 5 |
| 6 | | 2 780 B | | | | 7 140 B | | | | 27 300 E | | | 6 |
| 7 | | 2 760 B | | | | 7 350 B | | | | 26 800 E | | | 7 |
| 8 | | 2 760 B | | | | 7 550 B | | | | 25 400 A | | | 8 |
| 9 | | 2 760 B | | | | 7 700 B | | | 10.0 | 24 400 | 881 S | 1 820 000 | 9 |
| 10 | | 2 760 B | | | | 7 850 B | | | 10.0 | 23 700 | 897 S | 1 830 000 | 10 |
| 11 | | 2 760 B | | | | 7 850 B | | | 11.0 | 23 800 | 881 S | 1 780 000 | 11 |
| 12 | | 2 780 B | | | | 6 010 B | | | 11.0 | 23 800 | 870 S | 1 760 000 | 12 |
| 13 | | 2 770 B | | | | 6 050 B | | | 12.0 | 22 800 | 883 S | 1 710 000 | 13 |
| 14 | | 2 770 B | | | | 6 100 B | | | 11.0 | 22 000 | 871 S | 1 660 000 | 14 |
| 15 | | 2 770 B | | | | 6 100 B | | | 12.0 | 21 200 | 832 S | 1 540 000 | 15 |
| 16 | | 2 770 B | | | | 6 100 B | | | 12.0 | 20 600 | 469 S | 813 000 | 16 |
| 17 | | 2 770 B | | | | 6 220 B | | | 13.0 | 18 800 | 430 S | 735 000 | 17 |
| 18 | | 2 770 B | | | | 6 340 B | | | 13.0 | 19 100 | 368 S | 587 000 | 18 |
| 19 | | 2 770 B | | | | 6 260 B | | | 14.0 | 18 600 | 323 S | 518 000 | 19 |
| 20 | | 2 770 B | | | | 6 280 B | | | 14.0 | 18 200 | 311 S | 489 000 | 20 |
| 21 | | 2 770 B | | | | 6 320 B | | | 13.0 | 18 100 | 288 S | 483 000 | 21 |
| 22 | | 2 770 B | | | | 6 690 B | | | 14.0 | 18 300 | 287 S | 470 000 | 22 |
| 23 | | 2 780 B | | | | 8 800 B | | | 14.0 | 18 300 | 289 S | 457 000 | 23 |
| 24 | | 2 760 B | | | | 9 800 B | | | 15.0 | 18 500 | 278 S | 444 000 | 24 |
| 25 | | 2 780 B | | | | 11 300 B | | | 15.0 | 18 600 | 273 S | 438 000 | 25 |
| 26 | | 2 780 B | | | | 13 300 B | | | 15.0 | 18 800 | 284 S | 427 000 | 26 |
| 27 | | 2 800 B | | | | 15 800 B | | | 15.0 | 18 800 | 284 S | 472 000 | 27 |
| 28 | | 2 880 B | | | | 19 200 B | | | 15.0 | 18 700 | 255 S | 574 000 | 28 |
| 29 | | 2 870 B | | | | 23 000 B | | | 15.0 | 18 700 | 341 S | 551 000 | 29 |
| 30 | | 3 180 B | | | | 25 700 B | | | | 18 800 A | 304 | 485 000 | 30 |
| 31 | | | | | | 27 300 B | | | | | | | 31 |
| TOTAL | | 83 640 | | | | 315 820 | | | | 884 300 | | | TOTAL |
| MEAN | | 2 780 | | | | 10 200 | | | | 22 100 | | | MEAN |

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 18 400 E | 388 S | 429 000 | | 10 800 | 91 | 83 300 | | 8 280 A | 89 | 48 300 | 1 |
| 2 | | 18 200 E | 387 | 476 000 | | 10 500 | 94 | 85 200 | | 8 400 | 83 | 86 800 | 2 |
| 3 | | 18 800 E | 316 | 805 000 | | 10 200 | 87 | 85 500 | | 8 420 | 111 | 80 800 | 3 |
| 4 | | 17 600 E | 383 | 852 000 | 17.0 | 10 100 | 107 S | 93 400 | | 8 480 | 110 | 80 300 | 4 |
| 5 | 14.0 | 18 400 A | 444 S | 829 000 | | 9 940 | 140 | 120 000 | | 8 480 | 98 | 70 300 | 5 |
| 6 | | 18 800 | 430 | 886 000 | | 9 960 | 194 | 167 000 | | 8 420 | 94 | 68 400 | 6 |
| 7 | | 18 000 | 350 | 454 000 | | 10 700 | 337 | 312 000 | | 8 360 | 94 | 67 800 | 7 |
| 8 | 15.0 | 14 400 | 288 S | 372 000 | | 11 400 | 845 | 837 000 | | 8 370 | 95 | 68 000 | 8 |
| 9 | | 13 800 | 261 | 311 000 | 17.0 | 11 800 | 721 S | 718 000 | | 8 340 | 95 | 67 800 | 9 |
| 10 | | 13 300 | 234 | 269 000 | | 11 400 | 742 | 731 000 | | 8 240 A | 95 | 67 800 | 10 |
| 11 | | 12 800 | 211 | 235 000 | | 11 000 | 741 | 704 000 | | 8 280 E | 87 | 63 300 | 11 |
| 12 | 15.0 | 12 700 | 196 S | 208 000 | 17.0 | 10 800 | 743 S | 680 000 | | 8 340 E | 77 | 55 500 | 12 |
| 13 | | 12 500 | 171 | 185 000 | | 10 500 | 694 | 633 000 | | 8 400 E | 71 | 51 500 | 13 |
| 14 | | 12 400 | 161 | 172 000 | | 10 200 | 623 | 554 000 | | 8 450 E | 64 | 61 300 | 14 |
| 15 | 17.0 | 12 500 | 166 S | 167 000 | | 9 750 | 563 | 478 000 | | 8 500 E | 108 | 78 300 | 15 |
| 16 | | 13 700 | 158 | 174 000 | | 9 470 | 495 | 405 000 | | 8 580 E | 92 | 68 000 | 16 |
| 17 | | 13 700 | 167 | 183 000 | | 9 180 | 439 | 348 000 | | 8 610 E | 88 | 65 500 | 17 |
| 18 | | 13 700 | 179 | 196 000 | | 8 830 | 383 | 276 000 | | 8 880 E | 78 | 58 100 | 18 |
| 19 | 16.0 | 13 600 | 178 S | 195 000 | | 8 580 | 291 | 215 000 | | 8 710 E | 75 | 58 400 | 19 |
| 20 | | 12 400 | 183 | 175 000 | | 8 180 E | 218 | 154 000 | | 8 780 E | 78 | 59 600 | 20 |
| 21 | | 13 300 | 182 | 182 000 | | 8 010 E | 147 | 102 000 | | 8 830 E | 80 | 61 000 | 21 |
| 22 | 16.0 | 12 100 | 164 S | 151 000 | 16.0 | 8 030 E | 107 S | 74 280 | | 8 870 E | 85 | 65 100 | 22 |
| 23 | | 11 800 A | 138 | 142 000 | | 8 130 E | 136 | 88 580 | | 8 820 E | 90 | 69 400 | 23 |
| 24 | | 11 500 E | 127 | 126 000 | | 8 310 E | 161 | 115 000 | | 8 880 E | 78 | 60 500 | 24 |
| 25 | | 11 200 E | 119 | 115 000 | | 8 430 E | 179 | 130 000 | | 9 030 E | 71 | 55 400 | 25 |
| 26 | | 11 100 E | 111 | 106 000 | | 8 260 E | 161 | 115 000 | | 9 080 E | 85 | 64 100 | 26 |
| 27 | 15.0 | 11 100 E | 104 S | 99 700 | | 8 140 E | 133 | 83 500 | | 9 130 E | 72 | 59 400 | 27 |
| 28 | | 11 000 E | 103 | 97 900 | | 8 130 E | 115 | 80 700 | | 9 190 E | 77 | 61 100 | 28 |
| 29 | | 11 000 A | 100 | 95 000 | | 8 130 E | 97 | 86 100 | | 9 240 E | 87 | 63 500 | 29 |
| 30 | | 10 800 | 95 | 88 800 | | 8 220 E | 81 | 57 500 | | 9 250 E | 89 | 67 200 | 30 |
| 31 | 17.0 | 10 000 | 82 S | 85 800 | 14.0 | 8 330 E | 71 S | 51 100 | | | | | 31 |
| TOTAL | | 414 100 | | 7 781 000 | | 292 660 | | 8 344 100 | | 259 330 | | 1 880 200 | TOTAL |
| MEAN | | 13 400 | | 251 000 | | 9 440 | | 269 000 | | 8 640 | | 83 000 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 9 180 | 51 | 40 400 | | 7 200 B | | | | 3 700 B | | | 1 |
| 2 | | 9 180 | 43 | 34 000 | | 7 050 B | | | | 3 600 B | | | 2 |
| 3 | | 9 180 | 37 | 28 400 | | 6 900 B | | | | 3 500 B | | | 3 |
| 4 | 0.1 | 9 140 | 35 A | 27 800 | | 6 850 B | | | | 3 420 B | | | 4 |
| 5 | | 9 140 | 36 | 27 600 | | 6 750 B | | | | 3 350 B | | | 5 |
| 6 | | 9 180 | 35 | 27 700 | | 6 630 B | | | | 3 280 B | | | 6 |
| 7 | 0.1 | 9 200 | 34 S | 26 800 | | 6 480 B | | | | 3 200 B | | | 7 |
| 8 | | 9 210 | 35 | 27 800 | | 6 380 B | | | | 3 140 B | | | 8 |
| 9 | | 9 080 | 35 | 27 500 | | 6 240 B | | | | 3 080 B | | | 9 |
| 10 | | 9 000 | 36 | 26 000 | | 6 100 B | | | | 3 000 B | | | 10 |
| 11 | | 9 030 | 35 | 28 [illegible] | | 6 000 B | | | | 2 880 B | | | 11 |
| 12 | | 9 080 | 36 | 26 100 | | 5 880 B | | | | 2 930 B | | | 12 |
| 13 | | 8 880 | 37 | 28 800 | | 5 780 B | | | | 2 890 B | | | 13 |
| 14 | | 8 880 | 37 | 28 800 | | 5 630 B | | | | 2 890 B | | | 14 |
| 15 | | 8 640 | 36 | 27 500 | | 5 500 B | | | | 2 830 B | | | 15 |
| 16 | | 8 880 B | 34 | 25 100 | | 5 400 B | | | | 2 810 B | | | 16 |
| 17 | | 8 480 B | 32 | 23 400 | | 5 300 B | | | | 2 780 B | | | 17 |
| 18 | | 8 420 B | 31 | 22 800 | | 5 180 B | | | | 2 780 B | | | 18 |
| 19 | | 8 380 B | 31 | 22 400 | | 5 080 B | | | | 2 760 B | | | 19 |
| 20 | | 8 300 B | 30 E | 21 500 | | 4 940 B | | | | 2 760 B | | | 20 |
| 21 | | 8 220 B | 27 E | 19 300 | | 4 850 B | | | | 2 800 B | | | 21 |
| 22 | | 8 150 B | 27 E | 19 000 | | 4 720 B | | | | 2 830 B | | | 22 |
| 23 | | 8 040 B | 27 E | 18 800 | | 4 600 B | | | | 2 830 B | | | 23 |
| 24 | | 7 880 B | 28 E | 17 900 | | 4 500 B | | | | 2 890 B | | | 24 |
| 25 | | 7 830 B | 26 E | 17 500 | | 4 380 B | | | | 2 930 B | | | 25 |
| 26 | | 7 800 B | 26 E | 17 500 | | 4 380 B | | | | 2 980 B | | | 26 |
| 27 | | 7 700 B | 26 E | 17 300 | | 4 180 B | | | | 2 880 B | | | 27 |
| 28 | | 7 600 B | 26 E | 17 100 | | 4 030 B | | | | 3 020 B | | | 28 |
| 29 | | 7 500 B | 26 E | 16 200 | | 3 880 B | | | | 3 060 B | | | 29 |
| 30 | | 7 400 B | 26 E | 16 000 | | 3 800 B | | | | 3 100 B | | | 30 |
| 31 | | 7 300 B | 26 E | 16 000 | | | | | | 3 150 B | | | 31 |
| TOTAL | | 253 980 | | 767 200 | | 184 880 | | | | 94 200 | | | TOTAL |
| MEAN | | 8 930 | | 24 100 | | 6 490 | | | | 3 040 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 67 21 30 N
LONG 133 33 30 W
DRAINAGE AREA 1 800 000 km²
REGULATED FLOW SINCE 1968

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.063 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JUN 19 | 21:00 | 23 700 H | 10.0 | 837 K | 20 | 27 | 40 | 58 | 71 | 90 | 98 | 99 | 100 | | | SNW |
| JUN 15 | 19:40 | 21 200 H | 12.0 | 488 K | 23 | 31 | 44 | 59 | 78 | 91 | 98 | >100 | | | | SNW |
| JUN 19 | 12:55 | 18 600 H | 14.0 | 328 K | 23 | 31 | 44 | 60 | 77 | 91 | 98 | 100 | | | | SNW |
| JUN 27 | 15:00 | 18 600 H | 15.0 | 311 K | 25 | 31 | 45 | 62 | 77 | 93 | 98 | 100 | | | | SNW |
| JUL 05 | 20:25 | 18 400 H | 15.0 | 488 K | 39 | 45 | 62 | 74 | 88 | 98 | 99 | 100 | | | | SNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

# NOVA SCOTIA

## ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC008

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.5 | 14.7 | 8 S | 10.2 | | 7.60 S | 3 | 1.93 | | 4.50 S | 3 | 0.78 | 1 |
| 2 | 2.0 | 12.6 | 6 S | 5.94 | | 6.80 S | 3 | 1.76 | | 6.10 S | 18 | 8.43 | 2 |
| 3 | | 9.30 S | 5 | 3.97 | 2.0 | 8.03 S | 17 S | 11.6 | | 7.10 S | 68 | 34.4 | 3 |
| 4 | | 7.85 S | 4 | 2.76 | | 10.9 S | 36 | 35.8 | | 8.90 S | 21 | 16.0 | 4 |
| 5 | | 7.25 S | 3 | 1.88 | 1.0 | 13.4 S | 19 S | 23.0 | | 15.2 S | 10 | 13.1 | 5 |
| 6 | 0.5 | 6.85 S | 3 S | 1.80 | | 11.9 S | 10 | 10.3 | 0.1 | 12.0 S | 5 S | 5.15 | 6 |
| 7 | | 6.60 S | 3 | 1.71 | 0.5 | 10.7 S | 5 S | 4.82 | | 9.80 S | 4 | 3.20 | 7 |
| 8 | 1.0 | 6.38 S | 3 S | 1.66 | | 9.75 S | 4 | 3.37 | 1.0 | 8.00 S | 8 S | 5.83 | 8 |
| 9 | | 6.25 S | 3 | 1.62 | | 8.95 S | 4 | 3.05 | | 7.80 S | 7 | 4.72 | 9 |
| 10 | | 6.03 S | 2 | 1.04 | | 8.40 S | 4 | 2.90 | | 7.40 S | 18 | 12.1 | 10 |
| 11 | | 7.80 S | 33 | 22.2 | | 7.80 S | 4 | 2.73 | | 11.2 | 21 | 20.0 | 11 |
| 12 | 2.0 | 8.35 S | 27 S | 19.5 | | 7.45 S | 3 | 1.93 | 1.5 | 24.1 | 72 S | 150 | 12 |
| 13 | | 7.30 S | 18 | 11.4 | | 7.10 S | 3 | 1.84 | 0.5 | 60.4 | 33 S | 144 | 13 |
| 14 | 0.5 | 6.45 S | 14 S | 7.80 | | 6.80 S | 3 | 1.76 | 0.5 | 71.6 | 26 S | 161 | 14 |
| 15 | | 6.00 S | 11 | 5.70 | | 6.50 S | 3 | 1.68 | | 60.7 | 21 | 110 | 15 |
| 16 | | 5.90 S | 13 | 6.63 | | 6.20 S | 3 | 1.61 | | 43.6 | 15 | 55.2 | 16 |
| 17 | 0.5 | 5.55 S | 33 S | 16.6 | | 5.95 S | 2 | 1.05 | 1.0 | 31.9 | 10 S | 27.5 | 17 |
| 18 | | 5.05 S | 7 | 4.20 | | 5.85 S | 2 | 1.01 | | 28.7 | 11 | 24.4 | 18 |
| 19 | | 5.05 S | 6 | 3.57 | | 5.80 S | 2 | 0.97 | | 25.3 | 21 | 45.9 | 19 |
| 20 | | 5.45 S | 4 | 1.88 | | 5.45 S | 2 | 0.84 | 4.0 | 32.2 | 20 S | 55.6 | 20 |
| 21 | | 5.35 S | 3 | 1.39 | | 5.32 S | 2 | 0.82 | 5.0 | 42.6 | 12 S | 44.6 | 21 |
| 22 | 0.5 | 5.60 S | 2 S | 1.16 | | 5.15 S | 2 | 0.68 | 5.0 | 48.0 | 18 S | 74.8 | 22 |
| 23 | | 5.60 S | 2 | 1.71 | | 5.05 S | 3 | 1.31 | | 46.9 | 9 | 36.5 | 23 |
| 24 | | 15.0 S | 33 | 42.8 | | 4.93 S | 2 | 0.85 | | 38.9 | 6 | 20.9 | 24 |
| 25 | 0.5 | 22.2 S | 24 S | 46.0 | | 4.80 S | 2 | 0.83 | 0.5 | 38.6 | 6 S | 20.5 | 25 |
| 26 | 1.0 | 17.0 S | 12 S | 17.6 | | 4.75 S | 2 | 0.82 | | 32.9 | 7 | 13.8 | 26 |
| 27 | | 13.7 S | 10 | 11.8 | | 4.63 S | 2 | 0.80 | | 18.4 | 6 | 9.94 | 27 |
| 28 | | 11.7 S | 8 | 8.09 | | 4.55 W | 2 | 0.78 | | 16.9 | 10 | 14.8 | 28 |
| 29 | | 10.2 S | 7 | 6.17 | | | | | | 21.6 | 9 | 17.0 | 29 |
| 30 | | 9.00 S | 5 | 3.89 | | | | | | 22.3 | 5 | 9.83 | 30 |
| 31 | 0.5 | 6.30 S | 3 S | 2.13 | | | | | 3.0 | 18.9 | 5 S | 8.60 | 31 |
| TOTAL | | 278.86 | | 276.71 | | 200.34 | | 130.28 | | 792.80 | | 1 188.30 | TOTAL |
| MEAN | | 8.03 | | 8.93 | | 7.16 | | 4.30 | | 25.6 | | 38.3 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 17.6 | 7 | 10.6 | 15.0 | 8.47 | 6 S | 8.55 | | 14.8 | 15 | 19.3 | 1 |
| 2 | | 16.0 | 6 | 11.1 | | 10.8 | 13 | 12.2 | 14.0 | 18.8 | 18 S | 29.2 | 2 |
| 3 | | 14.8 | 10 | 12.6 | 15.0 | 20.3 | 66 S | 181 | 13.0 | 24.3 | 15 S | 31.4 | 3 |
| 4 | 3.0 | 16.9 | 21 S | 30.7 | 15.0 | 23.6 | 37 S | 76.1 | | 20.6 | 15 | 26.5 | 4 |
| 5 | 3.0 | 25.2 | 26 S | 56.6 | | 20.7 | 23 | 41.1 | 13.0 | 23.0 | 17 S | 33.8 | 5 |
| 6 | 4.0 | 27.1 | 30 S | 44.8 | | 18.3 | 18 | 22.4 | | 20.2 | 11 | 19.2 | 6 |
| 7 | | 25.6 | 16 | 35.4 | | 13.2 | 11 | 13.5 | | 16.1 | 10 | 14.3 | 7 |
| 8 | | 22.8 | 13 | 25.6 | 13.0 | 11.3 | 8 S | 8.81 | | 14.4 | 9 | 11.2 | 8 |
| 9 | | 21.7 | 10 | 16.7 | | 8.78 | 5 | 4.33 | | 12.4 | 9 | 9.84 | 9 |
| 10 | 6.0 | 18.9 | 8 S | 13.8 | | 8.18 | 4 | 3.17 | | 10.8 | 8 | 7.33 | 10 |
| 11 | | 18.8 | 13 | 20.9 | | 8.05 | 4 | 2.78 | | 9.18 | 7 | 6.84 | 11 |
| 12 | | 22.3 | 10 | 19.3 | | 7.44 | 5 | 3.21 | 17.0 | 8.05 | 8 S | 4.18 | 12 |
| 13 | | 21.3 | 7 | 12.8 | | 10.0 | 5 | 4.81 | | 7.16 | 5 | 3.08 | 13 |
| 14 | 5.0 | 18.9 | 8 S | 8.58 | | 10.7 | 5 | 4.32 | | 6.46 | 4 | 2.23 | 14 |
| 15 | | 16.0 | 6 | 8.28 | | 12.0 | 14 | 14.5 | | 8.70 | 7 | 4.05 | 15 |
| 16 | | 14.5 | 5 | 8.26 | 13.0 | 11.7 | 10 S | 10.1 | | 6.07 | 9 | 5.42 | 16 |
| 17 | 10.0 | 13.6 | 6 S | 8.86 | | 15.3 | 21 | 27.8 | | 6.26 | 7 | 3.54 | 17 |
| 18 | | 14.6 | 23 | 25.4 | | 18.1 | 17 | 28.1 | | 6.86 | 6 | 3.03 | 18 |
| 19 | | 18.0 | 10 | 13.0 | | 15.7 | 14 | 19.0 | 16.0 | 6.26 | 6 S | 2.74 | 19 |
| 20 | | 14.1 | 6 | 9.76 | | 12.3 | 10 | 10.5 | | 6.01 | 5 | 2.16 | 20 |
| 21 | | 13.0 | 7 | 7.88 | 12.0 | 12.5 | 8 S | 8.80 | | 4.25 | 5 | 1.84 | 21 |
| 22 | | 11.8 | 6 | 8.17 | | 13.4 | 7 | 8.43 | | 3.66 | 4 | 1.26 | 22 |
| 23 | | 11.0 | 4 | 3.80 | | 10.4 | 6 | 4.48 | | 3.68 | 6 | 1.81 | 23 |
| 24 | | 8.83 | 3 | 2.57 | | 8.85 | 3 | 2.66 | | 4.25 | 5 | 1.84 | 24 |
| 25 | | 10.7 | 23 | 21.3 | 10.0 | 22.2 | 71 S | 136 | | 4.10 | 4 | 1.42 | 25 |
| 26 | 12.0 | 16.2 | 11 S | 13.5 | 10.0 | 36.6 | 23 S | 88.6 | 20.0 | 3.68 | 3 S | 1.01 | 26 |
| 27 | | 13.6 | 8 | 7.15 | 12.0 | 32.6 | 12 S | 34.0 | | 3.66 | 3 | 1.03 | 27 |
| 28 | | 12.7 | 7 | 7.66 | | 25.6 | 3 | 19.9 | | 3.63 | 2 | 0.63 | 28 |
| 29 | | 11.8 | 7 | 7.16 | | 19.4 | 0 | 15.1 | | 3.43 | 2 | 0.86 | 29 |
| 30 | | 10.6 | 7 | 6.41 | | 15.6 | 7 | 9.43 | | 5.23 | 2 | 0.86 | 30 |
| 31 | | | | | 14.0 | 14.6 | 6 S | 7.57 | | | | | 31 |
| TOTAL | | 485.73 | | 480.73 | | 478.71 | | 781.08 | | 350.65 | | 250.34 | TOTAL |
| MEAN | | 16.5 | | 16.0 | | 15.4 | | 26.2 | | 9.38 | | 8.34 | MEAN |

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.07 | 3 | 0.83 | | 2.48 | 3 | 0.64 | 18.0 | 5.37 | 17 S | 7.74 | 1 |
| 2 | | 2.95 | 3 | 0.81 | | 2.97 | 3 | 0.87 | | 4.88 | 9 | 3.84 | 2 |
| 3 | | 2.84 | 3 | 0.81 | | 2.95 | 3 | 0.84 | | 3.83 | 7 | 2.19 | 3 |
| 4 | | 2.88 | 3 | 0.81 | | 2.43 | 3 | 0.62 | 17.0 | 2.85 | 8 S | 1.90 | 4 |
| 5 | | 2.89 | 2 | 0.80 | | 2.47 | 3 | 0.63 | | 2.88 | 8 | 1.34 | 5 |
| 6 | | 2.81 | 4 | 0.87 | | 2.32 | 3 | 0.60 | | 2.32 | 8 | 1.00 | 6 |
| 7 | | 3.73 | 4 | 1.29 | | 2.30 | 3 | 0.60 | | 3.08 | 5 | 0.89 | 7 |
| 8 | | 3.27 | 4 | 1.13 | | 2.30 | 3 | 0.60 | | 1.88 | 5 | 0.80 | 8 |
| 9 | | 3.00 | 3 | 0.78 | | 2.15 | 3 | 0.57 | | 1.91 | 5 | 0.83 | 9 |
| 10 | | 2.98 | 4 | 1.03 | | 2.13 | 3 | 0.57 | | 1.78 | 4 | 0.62 | 10 |
| 11 | | 2.77 | 4 | 0.86 | | 2.21 | 3 | 0.58 | 19.0 | 1.84 | 4 S | 0.57 | 11 |
| 12 | | 2.84 | 4 | 0.91 | | 2.88 | 5 | 1.85 | | 1.82 | 4 | 0.56 | 12 |
| 13 | 19.0 | 2.84 | 3 S | 0.86 | | 3.83 | 5 | 1.70 | | 1.88 | 4 | 0.55 | 13 |
| 14 | | 2.81 | 3 | 0.88 | 16.0 | 3.22 | 4 S | 1.11 | | 1.85 | 4 | 0.54 | 14 |
| 15 | | 2.87 | 2 | 0.46 | | 2.82 | 4 | 0.97 | | 1.44 | 4 | 0.50 | 15 |
| 16 | | 2.87 | 2 | 0.46 | | 3.08 | 4 | 1.07 | | 1.28 | 3 | 0.33 | 16 |
| 17 | | 2.87 | 2 | 0.46 | | 2.88 | 5 | 1.28 | | 1.34 | 5 | 0.88 | 17 |
| 18 | | 2.88 | 2 | 0.46 | | 2.82 | 5 | 1.38 | 14.0 | 2.31 | 6 S | 1.30 | 18 |
| 19 | | 2.43 | 2 | 0.42 | | 2.82 | 5 | 1.38 | | 3.18 A | 5 | 1.14 | 19 |
| 20 | | 2.42 | 2 | 0.42 | | 2.38 | 6 | 1.18 | | 1.90 E | 5 | 0.82 | 20 |
| 21 | | 2.86 | 1 | 0.22 | 18.0 | 1.82 | 7 S | 1.10 | | 1.88 E | 5 | 0.73 | 21 |
| 22 | | 2.81 | 3 | 0.73 | | 1.80 | 5 | 0.88 | | 1.86 E | 14 | 3.40 | 22 |
| 23 | | 6.40 | 6 | 4.42 | | 1.86 | 4 | 0.65 | | 1.81 E | 13 | 1.87 | 23 |
| 24 | | 5.53 | 6 | 2.87 | | 1.84 | 4 | 0.57 | | 1.83 E | 11 | 1.74 | 24 |
| 25 | | 4.31 | 5 | 1.86 | | 1.81 | 3 | 0.38 | 15.0 | 1.82 A | 10 S | 1.48 | 25 |
| 26 | | 3.75 | 4 | 1.30 | | 1.86 | 2 | 0.27 | | 1.82 | 10 | 1.31 | 26 |
| 27 | 21.0 | 3.86 | 4 S | 1.24 | | 1.48 | 2 | 0.26 | | 1.42 | 10 | 1.23 | 27 |
| 28 | | 3.23 | 3 | 0.84 | 18.0 | 1.43 | 1 S | 0.13 | | 1.38 | 9 | 1.07 | 28 |
| 29 | | 3.09 | 3 | 0.80 | | 1.37 | 1 | 0.12 | | 1.28 | 9 | 0.98 | 29 |
| 30 | | 2.73 | 3 | 0.71 | | 1.38 | 1 | 0.12 | | 1.22 | 9 | 0.95 | 30 |
| 31 | 18.0 | 2.69 | 3 S | 0.70 | | 1.97 | 0 | 1.83 | | | | | 31 |
| TOTAL | | 97.32 | | 28.33 | | 70.06 | | 22.32 | | 61.33 | | 40.93 | TOTAL |
| MEAN | | 3.14 | | 0.85 | | 2.26 | | 0.72 | | 2.04 | | 1.36 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.28 | 8 | 0.38 | | 1.88 | 3 | 0.41 | | 4.01 | 3 | 1.04 | 1 |
| 2 | | 1.28 | 8 | 1.0 | | 1.89 | 3 | 0.41 | | 3.82 | 3 | 0.89 | 2 |
| 3 | | 1.31 | 8 | 1.02 | 5.0 | 1.88 | 3 S | 0.41 | | 3.82 | 3 | 0.89 | 3 |
| 4 | 15.0 | 1.27 | 8 S | 0.88 | | 1.82 | 3 | 0.42 | 1.0 | 3.23 | 3 S | 0.84 | 4 |
| 5 | | 1.20 | 8 | 0.83 | | 1.87 | 2 | 0.27 | | 2.88 | 2 | 0.80 | 5 |
| 6 | | 1.35 | 7 | 0.78 | 5.0 | 1.78 | 3 S | 0.48 | | 3.86 | 2 | 0.91 | 6 |
| 7 | | 1.28 | 7 | 0.75 | | 2.78 | 5 | 1.20 | 5.0 | 4.81 | 13 S | 5.10 | 7 |
| 8 | | 1.23 | 7 | 0.74 | | 3.03 | 4 | 1.06 | | 7.85 | 9 | 5.10 | 8 |
| 9 | | 1.30 | 6 | 0.82 | | 2.81 | 4 | 0.87 | | 6.59 | 5 | 2.88 | 9 |
| 10 | | 1.27 | 6 | 0.86 | | 2.43 | 3 | 0.63 | 2.0 | 5.73 | 4 S | 1.98 | 10 |
| 11 | | 1.22 | 5 | 0.83 | 5.0 | 2.33 | 3 S | 0.60 | | 5.67 | 4 | 1.98 | 11 |
| 12 | | 1.15 | 5 | 0.50 | | 2.48 | 3 | 0.65 | | 5.54 | 5 | 2.63 | 12 |
| 13 | | 1.22 | 6 | 0.82 | 7.0 | 3.08 | 3 S | 0.80 | | 6.88 | 7 S | 4.32 | 13 |
| 14 | | 3.31 | 5 | 1.00 | | 2.87 | 3 | 0.74 | 0.5 | 13.2 | 82 S | 83.5 | 14 |
| 15 | | 2.43 | 3 | 0.83 | | 2.55 | 3 | 0.88 | 4.0 | 22.3 | 48 S | 82.5 | 15 |
| 16 | 11.0 | 1.86 | 3 S | 0.81 | | 2.83 | 5 | 1.38 | 5.0 | | | | 16 |
| 17 | | 1.70 | 3 | 0.44 | 5.0 | 4.88 | 13 S | 5.88 | 7.0 | 28.0 | 44 S | 105 | 17 |
| 18 | | 1.80 | 3 | 0.41 | | 5.08 | 8 | 4.20 | 1.5 | 25.8 | 18 | 40.3 | 18 |
| 19 | | 1.85 | 3 | 0.40 | | 5.30 | 8 | 3.75 | | 20.6 | 10 S | 18.0 | 19 |
| 20 | | 1.48 | 2 | 0.26 | 4.0 | 4.47 | 4 S | 1.84 | | 15.7 | 8 | 10.9 | 20 |
| 21 | | 1.43 | 2 | 0.25 | | 3.82 | 4 | 1.32 | | 13.1 | 7 | 7.32 | 21 |
| 22 | | 1.40 | 2 | 0.24 | | 3.89 | 4 | 1.38 | | 10.7 | 6 | 5.55 | 22 |
| 23 | 5.0 | 1.38 | 2 S | 0.24 | | 4.52 | 4 | 1.88 | 0.1 | 11.3 B | 6 | 5.61 | 23 |
| 24 | | 1.44 | 2 | 0.25 | | 4.32 | 4 | 1.48 | | 12.0 B | 6 S | 5.33 | 24 |
| 25 | | 1.78 | 2 | 0.31 | 5.0 | 4.43 | 10 S | 3.83 | | 12.6 B | 17 | 18.8 | 25 |
| 26 | | 1.84 | 2 | 0.34 | | 6.39 | 10 | 5.43 | | 14.1 B | 48 | 58.0 | 26 |
| 27 | | 1.81 | 3 | 0.58 | 3.0 | 5.55 | 5 S | 2.40 | | 15.3 B | 13 | 17.3 | 27 |
| 28 | 5.0 | 1.60 | 3 S | 0.47 | | 4.45 | 4 | 1.84 | 0.1 | 16.5 B | 8 | 11.7 | 28 |
| 29 | | 1.70 | 4 | 0.58 | | 4.04 | 4 | 1.40 | | 16.7 B | 4 S | 5.46 | 29 |
| 30 | | 1.84 | 3 | 0.43 | | 4.11 | 4 | 1.42 | 0.5 | 28.3 | 48 | 105 | 30 |
| 31 | | 1.88 | 3 | 0.44 | | | | | 0.5 | 38.8 | 14 S | 44.5 | 31 |
| | | | | | | | | | 0.5 | 31.8 | 6 S | 18.3 | |
| TOTAL | | 47.28 | | 17.63 | | 103.06 | | 48.88 | | 406.32 | | 696.34 | TOTAL |
| MEAN | | 1.83 | | 0.57 | | 3.44 | | 1.58 | | 13.2 | | 22.5 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 3 946.86 t

| SUSPENDED SEDIMENT CONCENTRATION(mg/L) | | | SUSPENDED SEDIMENT LOAD(t/d) | | |
|---|---|---|---|---|---|
| MEAN | 14 | | MEAN | 10.8 | |
| MAXIMUM DAILY | 86 | ON MAY 03 | MAXIMUM DAILY | 161 | ON MAR 14 |
| MINIMUM DAILY | 1 | ON JUL 21 | MINIMUM DAILY | 0.12 | ON AUG 26 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 44 55 59 N
LONG 65 01 47 W
DRAINAGE AREA 546 $km^2$
REGULATED FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.87 | 2 | 0.32 | | 1.26 E | 2 | 0.22 | | 0.380 E | 1 | 0.03 | 1 |
| 2 | | 1.76 | 2 | 0.31 | | 1.15 E | 2 | 0.20 | | 1.50 E | 4 | 0.52 | 2 |
| 3 | | 1.68 | 2 | 0.28 | | 1.10 E | 3 | 0.29 | | 6.00 E | 8 | 4.15 | 3 |
| 4 | 0.1 | 1.38 | 2 E | 0.24 | | 5.80 E | 7 | 3.33 | | 5.30 E | 7 | 3.21 | 4 |
| 5 | | 1.31 E | 3 | 0.34 | | 4.00 E | 4 | 1.38 | | 4.70 E | 6 | 2.44 | 5 |
| 6 | | 1.24 E | 2 | 0.31 | | 3.50 E | 3 | 0.81 | | 4.30 E | 4 | 1.45 | 6 |
| 7 | | 1.18 E | 2 | 0.30 | 0.1 | 2.70 E | 3 E | 0.70 | | 3.80 E | 3 | 0.83 | 7 |
| 8 | | 1.13 E | 2 | 0.30 | | 2.20 E | 3 | 0.57 | | 3.30 E | 3 | 0.57 | 8 |
| 9 | | 1.08 E | 2 | 0.19 | | 1.85 E | 2 | 0.32 | | 3.00 E | 3 | 0.52 | 9 |
| 10 | | 1.05 E | 1 | 0.09 | | 1.80 E | 2 | 0.28 | | 2.70 E | 3 | 0.47 | 10 |
| 11 | | 1.20 E | 3 | 0.32 | | 1.36 E | 3 | 0.35 | | 2.45 E | 3 | 0.62 | 11 |
| 12 | | 3.00 E | 3 | 0.52 | | 1.17 E | 2 | 0.20 | | 2.20 E | 4 | 0.76 | 12 |
| 13 | | 1.90 E | 3 | 0.49 | | 1.05 E | 3 | 0.27 | | 3.20 E | 4 | 1.11 | 13 |
| 14 | | 1.75 E | 3 | 0.45 | | 0.900 E | 3 | 0.23 | | 5.00 E | 5 | 2.16 | 14 |
| 15 | | 1.58 E | 2 | 0.32 | | 0.840 E | 3 | 0.22 | | 4.00 E | 6 | 1.73 | 15 |
| 16 | | 2.10 E | 2 | 0.36 | | 0.770 E | 2 | 0.13 | | 3.40 E | 3 | 0.88 | 16 |
| 17 | 0.1 | 2.80 E | 4 E | 0.97 | | 0.700 E | 2 | 0.12 | | 2.85 E | 3 | 0.69 | 17 |
| 18 | | 2.50 E | 4 | 0.86 | | 0.650 E | 2 | 0.11 | | 2.45 E | 3 | 0.62 | 18 |
| 19 | | 2.15 E | 3 | 0.55 | | 0.600 E | 2 | 0.10 | | 2.15 E | 3 | 0.56 | 19 |
| 20 | | 1.90 E | 3 | 0.33 | | 0.560 E | 2 | 0.10 | | 6.50 E | 3 | 1.47 | 20 |
| 21 | | 1.67 E | 2 | 0.29 | | 0.530 E | 1 | 0.08 | | 12.5 E | 2 | 2.16 | 21 |
| 22 | | 1.48 E | 2 | 0.26 | | 0.500 E | 1 | 0.04 | | 19.1 | 4 | 5.90 | 22 |
| 23 | | 1.33 E | 2 | 0.23 | | 0.480 E | 1 | 0.04 | | 14.5 | 4 | 5.11 | 23 |
| 24 | | 1.20 E | 2 | 0.33 | | 0.460 E | 1 | 0.04 | 0.1 | 5.07 | 3 E | 1.05 | 24 |
| 25 | 2.0 | 3.00 E | 5 E | 1.30 | | 0.440 E | 1 | 0.04 | | 3.80 | 3 | 0.88 | 25 |
| 26 | | 2.55 E | 3 | 0.66 | | 0.420 E | 1 | 0.04 | | 2.60 E | 3 | 0.45 | 26 |
| 27 | | 2.15 E | 3 | 0.56 | | 0.410 E | 1 | 0.04 | | 2.20 E | 3 | 0.38 | 27 |
| 28 | | 1.80 E | 3 | 0.49 | | 0.400 E | 1 | 0.03 | 1.0 | 1.97 | 3 E | 0.34 | 28 |
| 29 | | 1.65 E | 3 | 0.43 | | | | | | 3.91 | 3 | 1.01 | 29 |
| 30 | | 1.50 E | 2 | 0.26 | | | | | | 3.41 | 3 | 0.88 | 30 |
| 31 | 0.1 | 1.37 E | 2 E | 0.24 | | | | | | 2.60 | 2 | 0.48 | 31 |
| TOTAL | | 55.38 | | 12.48 | | 37.100 | | 10.35 | | 143.870 | | 43.88 | TOTAL |
| MEAN | | 1.78 | | 0.40 | | 1.33 | | 0.37 | | 4.64 | | 1.38 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.08 | 2 | 0.36 | | 2.06 | 1 | 0.18 | | 3.22 | 1 | 0.19 | 1 |
| 2 | | 1.91 | 2 | 0.33 | | 1.97 | 1 | 0.17 | | 3.37 | 1 | 0.20 | 2 |
| 3 | | 1.67 | 1 | 0.18 | 11.5 | 8.57 | 7 E | 5.78 | 13.5 | 2.61 | 1 E | 0.34 | 3 |
| 4 | | 1.62 | 2 | 0.31 | | 7.72 | 3 | 2.00 | | 2.12 | 1 | 0.18 | 4 |
| 5 | | 4.88 | 5 | 1.98 | | 7.02 | 2 | 1.21 | | 3.76 | 1 | 0.24 | 5 |
| 6 | | 5.48 | 4 | 1.86 | | 4.43 | 2 | 0.77 | | 2.10 | 1 | 0.18 | 6 |
| 7 | | 4.62 | 3 | 1.25 | | 2.62 | 1 | 0.24 | | 1.96 | 1 | 0.17 | 7 |
| 8 | | 4.44 | 2 | 0.77 | | 2.06 | 1 | 0.18 | | 2.00 | 1 | 0.17 | 8 |
| 9 | | 4.21 | 2 | 0.73 | | 1.83 | 1 | 0.14 | | 1.87 | 2 | 0.27 | 9 |
| 10 | | 3.62 | 2 | 0.61 | | 1.62 | 1 | 0.13 | | 1.38 | 1 | 0.11 | 10 |
| 11 | | 3.88 | 3 | 0.85 | | 1.36 | 1 | 0.12 | | 1.08 | 1 | 0.09 | 11 |
| 12 | | 5.58 | 4 | 1.82 | 12.0 | 1.29 | 1 E | 0.11 | | 0.933 | 1 | 0.06 | 13 |
| 13 | | 4.23 | 2 | 0.73 | | 1.33 | 1 | 0.11 | 15.0 | 0.637 | 1 E | 0.07 | 13 |
| 14 | | 3.11 | 2 | 0.54 | | 1.27 | 1 | 0.11 | | 0.778 | 1 | 0.07 | 14 |
| 15 | | 2.38 | 2 | 0.41 | | 1.19 | 1 | 0.10 | | 0.745 | 1 | 0.06 | 15 |
| 16 | | 2.10 | 2 | 0.36 | | 1.13 | 1 | 0.10 | | 0.723 | 1 | 0.06 | 15 |
| 17 | | 2.27 | 2 | 0.39 | | 2.24 | 2 | 0.39 | | 0.644 | 1 | 0.06 | 17 |
| 18 | 5.0 | 3.25 | 3 E | 0.96 | | 2.50 | 2 | 0.43 | | 0.558 | 1 | 0.05 | 18 |
| 19 | | 3.06 | 2 | 0.53 | | 1.76 | 1 | 0.15 | | 0.534 | 1 | 0.05 | 19 |
| 20 | | 2.93 | 1 | 0.25 | 13.0 | 1.41 | 1 E | 0.12 | 15.5 | 0.980 | 1 E | 0.08 | 20 |
| 21 | 11.0 | 2.58 | 1 E | 0.22 | | 2.19 | 2 | 0.38 | | 0.445 | 1 | 0.04 | 21 |
| 22 | | 2.01 | 1 | 0.17 | | 2.19 | 1 | 0.18 | | 0.401 | 1 | 0.03 | 22 |
| 23 | | 1.70 | 1 | 0.15 | | 1.81 | 1 | 0.15 | | 0.388 | 1 | 0.02 | 23 |
| 24 | | 1.41 | 1 | 0.12 | | 1.31 | 1 | 0.11 | | 0.367 | 1 | 0.03 | 24 |
| 25 | | 1.58 | 1 | 0.14 | | 0.40 | 6 | 4.67 | | 0.301 | 1 | 0.03 | 25 |
| 26 | | 3.91 | 3 | 1.01 | | 11.3 | 3 | 2.93 | | 0.272 | 1 | 0.03 | 26 |
| 27 | | 3.33 | 2 | 0.58 | | 4.82 | 2 | 0.78 | 15.5 | 0.238 | 1 E | 0.02 | 27 |
| 28 | | 2.60 | 1 | 0.22 | | 3.66 | 2 | 0.64 | | 0.235 | 1 | 0.02 | 28 |
| 29 | | 2.03 | 1 | 0.15 | | 3.00 | 2 | 0.53 | | 0.260 | 1 | 0.02 | 29 |
| 30 | | 1.80 | 1 | 0.15 | | 2.22 | 2 | 0.38 | | 0.239 | 1 | 0.02 | 30 |
| 31 | | | | | | 2.28 | 2 | 0.39 | | | | | 31 |
| TOTAL | | 90.11 | | 17.87 | | 100.25 | | 33.81 | | 31.686 | | 2.85 | TOTAL |
| MEAN | | 3.00 | | 0.60 | | 3.23 | | 0.77 | | 1.06 | | 0.10 | MEAN |

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.187 | 1 | 0.02 | | 0.373 | 1 | 0.03 | | 1.17 | 5 | 0.51 | 1 |
| 2 | | 0.174 | 1 | 0.03 | | 0.386 | 1 | 0.03 | | 1.37 | 3 | 0.36 | 2 |
| 3 | | 0.217 | 1 | 0.04 | 17.0 | 0.388 | 2 E | 0.04 | | 0.883 | 2 | 0.15 | 3 |
| 4 | 15.0 | 0.236 | 2 E | 0.04 | | 0.457 | 2 | 0.04 | | 0.881 | 2 | 0.19 | 4 |
| 5 | | 0.211 | 2 | 0.04 | | 0.853 | 2 | 0.11 | | 0.438 | 1 | 0.04 | 5 |
| 6 | | 0.208 | 1 | 0.02 | | 0.475 | 2 | 0.08 | | 0.388 | 2 | 0.08 | 6 |
| 7 | | 0.684 | 2 | 0.10 | | 0.781 | 3 | 0.30 | 20.5 | 0.287 | 2 E | 0.06 | 7 |
| 8 | | 0.437 | 1 | 0.04 | 16.5 | 0.831 | 3 E | 0.22 | | 0.373 | 2 | 0.06 | 8 |
| 9 | | 0.313 | 1 | 0.03 | | 0.517 | 3 | 0.13 | | 0.338 | 2 | 0.04 | 9 |
| 10 | | 0.378 | 1 | 0.03 | | 0.448 | 2 | 0.08 | | 0.309 | 2 | 0.04 | 10 |
| 11 | | 0.333 | 1 | 0.02 | | 0.415 | 1 | 0.04 | | 0.306 | 2 | 0.04 | 11 |
| 12 | 15.5 | 0.306 | 1 E | 0.02 | | 1.07 | 2 | 0.28 | | 0.308 | 2 | 0.04 | 12 |
| 13 | | 0.304 | 1 | 0.03 | | 3.15 | 5 | 1.36 | 20.0 | 0.189 | 2 E | 0.03 | 13 |
| 14 | | 0.185 | 1 | 0.03 | | 1.80 | 3 | 0.28 | | 0.185 | 2 | 0.03 | 14 |
| 15 | | 0.185 | 1 | 0.02 | | 1.03 | 2 | 0.18 | | 0.173 | 1 | 0.01 | 15 |
| 16 | | 0.210 | 1 | 0.02 | 15.0 | 1.58 | 4 E | 0.64 | | 0.185 A | 1 | 0.02 | 16 |
| 17 | | 0.230 | 1 | 0.03 | | 1.13 | 2 | 0.30 | | 0.180 E | 1 | 0.01 | 17 |
| 18 | | 0.190 | 1 | 0.03 | | 0.883 | 2 | 0.15 | | 1.80 E | 1 | 0.14 | 18 |
| 19 | 15.0 | 0.170 | 1 E | 0.01 | | 1.07 | 3 | 0.18 | 14.5 | 0.974 A | 1 E | 0.08 | 19 |
| 20 | | 0.160 | 1 | 0.01 | | 0.943 | 3 | 0.18 | | 0.778 A | 1 | 0.07 | 20 |
| 21 | | 0.133 | 1 | 0.01 | | 0.828 | 2 | 0.11 | | 0.623 | 1 | 0.04 | 21 |
| 22 | | 0.837 | 2 | 0.14 | | 0.498 | 1 | 0.04 | | 0.357 | 1 | 0.03 | 22 |
| 23 | | 11.0 | 17 | 16.3 | | 0.428 | 1 | 0.03 | | 0.732 | 1 | 0.08 | 23 |
| 24 | | 4.15 | 13 | 4.86 | | 0.365 | 1 | 0.03 | | 0.583 | 1 | 0.05 | 24 |
| 25 | 15.0 | 1.68 | 7 E | 1.16 | | 0.338 | 1 | | | 0.477 | 1 | 0.04 | 25 |
| 26 | | 1.38 | 4 | 0.48 | | 0.287 | 1 | 0.03 | 8.0 | 0.432 | 1 E | 0.04 | 26 |
| 27 | | 1.35 | 3 | 0.33 | | 0.278 | 1 | 0.02 | | 0.346 | 1 | 0.03 | 27 |
| 28 | | 0.840 | 2 | 0.15 | | 0.268 | 1 | 0.02 | | 0.306 | 1 | 0.03 | 28 |
| 29 | | 0.639 | 1 | 0.05 | 15.0 | 0.280 | 1 E | 0.02 | | 0.268 | 1 | 0.02 | 29 |
| 30 | | 0.533 | 1 | 0.04 | | 0.259 | 1 | 0.02 | | 0.258 | 1 | 0.02 | 30 |
| 31 | | 0.488 | 1 | 0.04 | | 0.197 | 1 | 0.02 | | | | | 31 |
| TOTAL | | 37.788 | | 33.59 | | 21.872 | | 4.77 | | 14.810 | | 3.23 | TOTAL |
| MEAN | | 0.899 | | 0.76 | | 0.706 | | 0.15 | | 0.487 | | 0.07 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.334 | 1 | 0.02 | | 0.377 | 1 | 0.03 | | 1.87 | 1 | 0.14 | 1 |
| 2 | | 0.331 | 1 | 0.03 | 2.0 | 0.342 | 1 E | 0.03 | | 1.30 E | 1 | 0.11 | 2 |
| 3 | | 0.314 | 1 | 0.02 | | 0.327 | 1 E | 0.03 | | 1.30 E | 1 | 0.10 | 3 |
| 4 | | 0.318 | 1 | 0.03 | | 0.303 | 1 | 0.03 | | 1.10 E | 1 | 0.10 | 4 |
| 5 | 11.0 | 0.826 | 1 E | 0.06 | | 0.319 | 1 | 0.03 | 0.1 | 1.00 E | 1 E | 0.08 | 5 |
| 6 | | 0.885 | 2 | 0.17 | | 0.884 | 2 | 0.17 | | 1.11 | 1 | 0.10 | 6 |
| 7 | | 0.711 | 1 | 0.05 | | 2.48 | 5 E | 1.06 | | 3.08 | 1 | 0.38 | 7 |
| 8 | | 0.483 | 1 | 0.04 | | 2.04 | 3 E | 0.36 | | 4.45 | 1 | 0.38 | 8 |
| 9 | | 0.389 | 1 | 0.03 | 8.5 | 1.38 | 1 E | 0.13 | | 2.88 | 0 | 0 | 9 |
| 10 | | 0.383 | 1 | 0.03 | | 1.08 | 1 E | 0.08 | | 2.03 | 1 | 0.16 | 10 |
| 11 | 8.0 | 0.327 | 1 E | 0.03 | | 0.884 | 1 | 0.08 | | 1.80 E | 1 | 0.18 | 11 |
| 12 | | 0.278 | 1 | 0.03 | | 1.28 | 1 | 0.11 | 0.1 | 1.60 E | 1 E | 0.14 | 12 |
| 13 | | 0.258 | 1 | 0.03 | | 1.43 | 1 | 0.12 | | 1.84 | 1 | 0.17 | 13 |
| 14 | | 1.77 | 3 | 0.46 | 1.0 | 1.38 | 1 E | 0.13 | | 30.7 | 11 | 18.7 | 14 |
| 15 | | 1.78 | 3 | 0.31 | | 1.16 | 1 | 0.10 | | 30.8 | 10 | 18.0 | 15 |
| 16 | | 1.08 | 1 | 0.08 | 3.0 | 0.884 | 1 E | 0.09 | | 13.5 | 5 | 5.60 | 16 |
| 17 | 5.0 | 0.672 | 1 E | 0.06 | | 2.12 | 4 E | 1.08 | | 6.38 | 3 | 1.19 | 17 |
| 18 | | 0.536 | 1 | 0.05 | | 3.91 | 5 E | 1.68 | | 3.84 | 1 E | 0.34 | 18 |
| 19 | | 0.548 | 1 | 0.05 | | 2.88 | 2 E | 0.46 | 0.1 | 3.50 E | 1 E | 0.33 | 19 |
| 20 | 6.5 | 0.576 | 1 E | 0.05 | | 1.81 | 3 | 0.31 | | 3.30 E | 1 | 0.20 | 20 |
| 21 | | 0.514 | 1 | 0.04 | | 1.47 | 3 E | 0.35 | | 2.05 E | 1 | 0.16 | 21 |
| 22 | | 0.488 | 1 | 0.04 | | 3.33 | 3 E | 0.86 | | 1.80 E | 1 | 0.18 | 22 |
| 23 | | 0.388 | 1 | 0.03 | | 3.60 | 3 E | 0.93 | | 1.65 E | 1 | 0.14 | 23 |
| 24 | 5.5 | 0.338 | 1 E | 0.03 | 3.5 | 3.41 | 1 E | 0.31 | | 1.50 E | 3 | 0.39 | 24 |
| 25 | | 0.340 | 1 | 0.03 | | 2.83 | 4 E | 1.01 | | 1.38 E | 2 | 0.24 | 25 |
| 26 | | 0.374 | 1 | 0.03 | | 4.12 | 6 E | 2.14 | | 1.27 E | 2 | 0.22 | 26 |
| 27 | | 0.384 | 1 E | 0.03 | | 3.99 | 3 E | 0.46 | | 1.18 E | 3 | 0.20 | 27 |
| 28 | | 0.368 | 1 | 0.03 | | 1.86 | 1 E | 0.17 | | 1.10 E | 3 | 0.18 | 28 |
| 29 | | 0.389 | 1 | 0.03 | 1.0 | 1.73 | 1 E | 0.18 | | 5.80 E | 2 | 1.03 | 29 |
| 30 | | 0.404 | 1 | 0.03 | | 1.84 | 1 | 0.14 | | 8.00 E | 2 | 1.34 | 30 |
| 31 | 2.0 | 0.394 | 1 E | 0.03 | | | | | | 4.00 E | 2 | 0.89 | 31 |
| TOTAL | | 16.680 | | 1.55 | | 84.021 | | 13.41 | | 134.21 | | 51.78 | TOTAL |
| MEAN | | 0.534 | | 0.06 | | 1.80 | | 0.41 | | 4.01 | | 1.67 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 207.39 t

| SUSPENDED SEDIMENT CONCENTRATION(mg/L) | | | SUSPENDED SEDIMENT LOAD(t/d) | | |
|---|---|---|---|---|---|
| MEAN | 3 | | MEAN | 0.57 | |
| MAXIMUM DAILY | 17 | ON JUL 23 | MAXIMUM DAILY | 18.7 | ON DEC 14 |
| MINIMUM DAILY | 0 | ON DEC 09 | MINIMUM DAILY | 0 | ON DEC 09 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 35 10 N
LONG 64 27 05 W

DRAINAGE AREA 63.2 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  5 - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

SUSPENDED SEDIMENT FOR 1983

| | JAN | | | | FEB | | | | MAR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | DAY |
| 1 | | 3.80 | | | | 1.32 B | | | | 0.500 B | | | 1 |
| 2 | | 3.46 | | | | 1.30 B | | | | 3.57 | | | 2 |
| 3 | | 2.81 | | | | 1.79 | | | | 6.20 B | | | 3 |
| 4 | | 1.80 B | | | | 7.12 | | | | 7.10 B | | | 4 |
| 5 | | 1.87 B | | | | 4.88 | | | | 6.20 B | | | 5 |
| 6 | | 1.58 B | | | | 2.29 | | | | 5.70 B | | | 6 |
| 7 | | 1.51 B | | | | 1.85 | | | | 5.10 B | | | 7 |
| 8 | | 1.45 B | | | | 1.75 B | | | | 4.70 B | | | 8 |
| 9 | | 1.41 B | | | | 1.60 B | | | | 4.30 B | | | 9 |
| 10 | | 1.36 B | | | | 1.45 B | | | | 3.95 B | | | 10 |
| 11 | | 3.00 B | | | | 1.31 B | | | | 3.85 B | | | 11 |
| 12 | | 14.8 | | | | 1.20 B | | | | 3.45 B | | | 12 |
| 13 | | 8.28 | | | | 1.11 B | | | | 7.00 B | | | 13 |
| 14 | | 6.29 | | | | 1.02 B | | | | 10.0 B | | | 14 |
| 15 | | 4.43 | | | | 0.950 B | | | | 7.10 B | | | 15 |
| 16 | | 6.74 | | | | 0.890 B | | | | 5.80 B | | | 16 |
| 17 | | 13.8 | | | | 0.840 B | | | | 4.20 B | | | 17 |
| 18 | | 6.47 | | | | 0.780 B | | | | 3.30 B | | | 18 |
| 19 | | 3.79 | | | | 0.740 B | | | | 2.80 B | | | 19 |
| 20 | | 3.19 | | | | 0.700 B | | | | 13.2 | | | 20 |
| 21 | | 2.87 | | | | 0.870 B | | | | 18.5 | | | 21 |
| 22 | | 2.50 B | | | | 0.840 B | | | | 16.9 | | | 22 |
| 23 | | 2.40 B | | | | 0.810 B | | | | 17.6 | | | 23 |
| 24 | | 3.00 B | | | | 0.590 B | | | | 8.22 | | | 24 |
| 25 | | 4.10 B | | | | 0.570 B | | | | 6.02 | | | 25 |
| 26 | | 3.53 | | | | 0.550 B | | | | 4.46 | | | 26 |
| 27 | | 2.30 | | | | 0.530 B | | | | 4.08 | | | 27 |
| 28 | | 1.78 | | | | 0.520 B | | | | 3.46 | | | 28 |
| 29 | | 1.62 B | | | | | | | | 5.80 | | | 29 |
| 30 | | 1.52 B | | | | | | | | 6.82 | | | 30 |
| 31 | | 1.43 B | | | | | | | | 4.29 | | | 31 |
| TOTAL | | 121.50 | | | | 39.430 | | | | 208.950 | | | TOTAL |
| MEAN | | 3.92 | | | | 1.41 | | | | 6.74 | | | MEAN |

| | APR | | | | MAY | | | | JUN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | DAY |
| 1 | | 3.44 | | | | 2.68 | | | | 3.15 | 3 | 0.82 | 1 |
| 2 | | 3.80 | | | | 2.76 | | | | 3.87 | 9 | 3.00 | 2 |
| 3 | | 5.55 | | | | 5.57 | | | | 4.35 | 6 | 2.26 | 3 |
| 4 | | 5.53 | | | | 5.27 | | | | 2.80 | 6 | 1.38 | 4 |
| 5 | | 18.3 | | | | 3.56 | | | | 4.60 | 5 | 1.99 | 5 |
| 6 | | 12.6 | | | | 2.78 | | | 10.0 | 2.88 | 2 S | 0.48 | 6 |
| 7 | | 7.79 | | | | 2.28 | | | | 2.58 | 2 | 0.45 | 7 |
| 8 | | 8.88 | | | | 1.94 | | | | 2.40 | 2 | 0.41 | 8 |
| 9 | | 7.25 | | | | 1.71 | | | | 1.88 | 2 | 0.32 | 9 |
| 10 | | 5.76 | | | | 4.63 | | | | 1.55 | 1 | 0.13 | 10 |
| 11 | | 8.18 | | | | 4.53 | | | | 1.36 | 1 | 0.12 | 11 |
| 12 | | 8.45 | | | | 9.94 | | | | 1.12 | 1 | 0.10 | 12 |
| 13 | | 6.30 | | | | 5.80 | | | 16.0 | 1.03 | 1 S | 0.09 | 13 |
| 14 | | 4.74 | | | | 4.03 | | | | 0.956 | 1 | 0.08 | 14 |
| 15 | | 3.87 | | | | 3.27 | | | | 0.926 | 2 | 0.16 | 15 |
| 16 | | 3.43 | | | | 3.20 | | | | 0.893 | 2 | 0.15 | 16 |
| 17 | | 3.86 | | | | 4.54 | | | | 0.795 | 2 | 0.14 | 17 |
| 18 | | 5.21 | | | | 3.71 | | | | 0.700 | 2 | 0.12 | 18 |
| 19 | | 6.88 | | | | 2.64 | | | | 0.636 | 2 | 0.11 | 19 |
| 20 | | 6.84 | | | | 2.11 | | | 22.0 | 0.580 | 3 S | 0.15 | 20 |
| 21 | | 5.91 | | | | 6.18 | | | | 0.546 | 3 | 0.14 | 21 |
| 22 | | 4.19 | | | | 3.84 | | | | 0.470 | 3 | 0.12 | 22 |
| 23 | | 3.54 | | | | 2.84 | | | | 0.466 | 3 | 0.12 | 23 |
| 24 | | 2.84 | | | | 2.26 | | | | 0.428 | 3 | 0.11 | 24 |
| 25 | | 3.53 | | | | 2.47 | | | | 0.371 | 3 | 0.10 | 25 |
| 26 | | 10.9 | | | | 8.86 | | | | 0.358 | 3 | 0.09 | 26 |
| 27 | | 8.48 | | | | 4.30 | | | 22.0 | 0.360 | 3 S | 0.09 | 27 |
| 28 | | 4.87 | | | | 3.86 | | | | 0.313 | 3 | 0.08 | 28 |
| 29 | | 3.74 | | | | 3.23 | | | | 0.304 | 3 | 0.08 | 29 |
| 30 | | 3.08 | | | 7.0 | 2.82 | 4 S | 0.97 | | 0.280 | 3 | 0.08 | 30 |
| 31 | | | | | | 2.26 | 4 | 0.78 | | | | | 31 |
| TOTAL | | 182.83 | | | | 118.98 | | | | 41.758 | | 12.26 | TOTAL |
| MEAN | | 6.10 | | | | 3.84 | | | | 1.39 | | 0.41 | MEAN |

NOVA SCOTIA

MIDDLE RIVER AT ROCKLIN - STATION NO. 01EP004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.321 | 3 | 0.04 | 19.0 | 0.919 | 2.5 | 0.08 | | 5.01 | 11 | 4.76 | 1 |
| 2 | | 0.300 | 3 | 0.05 | | 0.910 | 2 | 0.08 | | 2.30 | 4 | 0.76 | 2 |
| 3 | | 0.857 | 3 | 0.34 | | 0.837 | 3 | 0.08 | | 1.27 | 3 | 0.33 | 3 |
| 4 | 35.0 | 0.434 | 4.5 | 0.15 | | 0.858 | 3 | 0.10 | | 0.938 | 3 | 0.24 | 4 |
| 5 | | 0.353 | 4 | 0.12 | | 0.898 | 3 | 0.10 | | 0.764 | 3 | 0.20 | 5 |
| 6 | | 0.388 | 3 | 0.07 | | 0.476 | 2 | 0.09 | | 0.618 | 3 | 0.11 | 6 |
| 7 | | 0.335 | 3 | 0.08 | | 33.3 | 23 | 48.3 | | 0.581 | 3 | 0.10 | 7 |
| 8 | | 0.381 | 3 | 0.08 | 30.0 | 8.20 | 12.5 | 8.54 | | 0.537 | 3 | 0.08 | 8 |
| 9 | | 0.316 | 3 | 0.08 | | 4.30 | 8 | 2.97 | | 0.488 | 3 | 0.06 | 9 |
| 10 | | 0.431 | 3 | 0.07 | | 7.80 | 12 | 8.19 | | 0.462 | 3 | 0.06 | 10 |
| 11 | 20.0 | 0.336 | 2.5 | 0.08 | | 4.88 | 9 | 3.11 | | 0.444 | 3 | 0.08 | 11 |
| 12 | | 0.305 | 3 | 0.08 | | 10.8 | 17 | 15.5 | | 0.727 | 3 | 0.18 | 12 |
| 13 | | 0.321 | 3 | 0.08 | | 18.0 | 19 | 24.9 | | 0.532 | 3 | 0.09 | 13 |
| 14 | | 2.33 | 7 | 1.35 | | 7.39 | 9 | 6.87 | | 0.408 | 3 | 0.07 | 14 |
| 15 | | 1.27 | 2 | 0.22 | 20.0 | 4.81 | 5.5 | 1.85 | | 0.357 | 3 | 0.06 | 15 |
| 16 | | 0.765 | 1 | 0.08 | | 4.08 | 5 | 1.78 | | 0.344 | 3 | 0.08 | 16 |
| 17 | | 0.533 | 1 | 0.05 | | 3.63 | 5 | 1.63 | | 0.331 | 3 | 0.05 | 17 |
| 18 | 25.0 | 0.406 | 1.5 | 0.04 | | 2.36 | 5 | 1.03 | | 14.6 | 21 | 25.5 | 18 |
| 19 | | 0.340 | 1 | 0.03 | | 2.00 | 4 | 0.78 | | 5.67 | 8 | 4.36 | 19 |
| 20 | | 0.303 | 1 | 0.03 | | 1.78 | 4 | 0.83 | | 3.83 | 6 | 0.98 | 20 |
| 21 | | 0.315 | 1 | 0.03 | | 1.62 | 4 | 0.68 | 18.0 | 1.85 | 1.5 | 0.18 | 21 |
| 22 | | 11.3 | 11 | 10.7 | | 1.13 | 4 | 0.38 | | 1.61 | 1 | 0.13 | 22 |
| 23 | | 15.6 | 10 | 13.7 | | 1.02 | 4 | 0.35 | | 3.36 | 3 | 0.41 | 23 |
| 24 | | 4.50 | 5 | 2.07 | | 0.858 | 3 | 0.32 | | 1.83 | 3 | 0.38 | 24 |
| 25 | 18.0 | 3.41 | 3.5 | 0.82 | | 0.781 | 3 | 0.30 | | 1.08 | 3 | 0.34 | 25 |
| 26 | | 2.08 | 3 | 0.53 | | 0.885 | 3 | 0.16 | | 1.42 | 3 | 0.35 | 26 |
| 27 | | 1.38 | 3 | 0.34 | | 0.838 | 3 | 0.15 | | 1.16 | 3 | 0.30 | 27 |
| 28 | | 1.04 | 3 | 0.15 | | 0.824 | 3 | 0.15 | | 1.03 | 3 | 0.05 | 28 |
| 29 | | 0.840 | 3 | 0.13 | | 0.578 | 3 | 0.10 | | 0.834 | 1 | 0.04 | 29 |
| 30 | | 0.702 | 3 | 0.11 | | 0.535 | 3 | 0.14 | | 0.834 | 1 | 0.07 | 30 |
| 31 | | 0.837 | 3 | | | 0.588 | 3 | 0.10 | | | | | 31 |
| TOTAL | | 51.519 | | 31.48 | | 118.933 | | 135.95 | | 93.787 | | 61.34 | TOTAL |
| MEAN | | 1.66 | | 1.02 | | 3.74 | | 4.08 | | 1.78 | | 1.38 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.764 | 1 | 0.06 | | 1.30 | 1 | 0.11 | | 1.88 | 1 | 0.17 | 1 |
| 2 | | 0.685 | 1 | 0.06 | | 1.18 | 1 | 0.10 | | 1.73 | 1 | 0.15 | 2 |
| 3 | | 0.645 | 1 | 0.06 | | 1.08 | 1 | 0.08 | | 1.83 | 3 | 0.36 | 3 |
| 4 | | 0.645 | 1 | 0.06 | | 1.08 | 1 | 0.08 | | 1.83 | 3 | 0.36 | 4 |
| 5 | | 1.22 | 3 | 0.32 | | 1.04 | 1 | 0.08 | | 1.80 | 1 | 0.15 | 5 |
| 6 | | 1.15 | 3 | 0.30 | | 5.83 | 4 | 3.62 | | 1.37 | 3 | 0.24 | 6 |
| 7 | | 0.871 | 3 | 0.15 | | 10.6 | 15 | 14.8 | | 6.86 | 11 | 4.62 | 7 |
| 8 | | 0.666 | 3 | 0.13 | | 4.87 | 5 | 3.10 | | 3.47 | 3 | 0.80 | 8 |
| 9 | | 0.612 | 3 | 0.11 | | 3.15 | 3 | 0.84 | | 3.30 | 3 | 0.30 | 9 |
| 10 | | 0.593 | 1 | 0.05 | | 3.60 | 1 | 0.31 | | 3.36 | 1 | 0.30 | 10 |
| 11 | | 0.530 | 2 | 0.09 | | 3.02 | 2 | 0.46 | | 3.10 B | 1 | 0.18 | 11 |
| 12 | | 0.484 | 2 | 0.08 | | 5.76 | 4 | 1.30 | | 1.88 | 1 | 0.18 | 12 |
| 13 | | 0.534 | 1 | 0.05 | | 4.43 | 3 | 1.15 | | 3.11 | 3 | 0.36 | 13 |
| 14 | | 1.00 | 4 | 0.33 | | 2.91 | 3 | 0.75 | 13.4 | | 15 | 13.5 | 14 |
| 15 | | 1.01 | 3 | 0.33 | | 2.35 | 3 | 0.59 | 10.9 | | 7 | 6.59 | 15 |
| 16 | | 0.858 | 1 | 0.08 | | 2.80 | 5 | 1.08 | 10.7 | | 3 | 2.77 | 16 |
| 17 | | 0.837 | 1 | 0.07 | 15.1 | | 19 | 26.5 | | 6.86 | 1 | 0.58 | 17 |
| 18 | | 0.713 | 1 | 0.06 | | 7.61 | 5 | 3.38 | | 6.63 | 3 | 0.80 | 18 |
| 19 | | 0.888 | 1 | 0.08 | | 4.66 | 3 | 0.81 | | 3.00 B | 3 | 0.63 | 19 |
| 20 | | 0.834 | 1 | 0.08 | | 3.40 | 1 | 0.38 | | 3.70 B | 1 | 0.23 | 20 |
| 21 | | 0.583 | 1 | 0.05 | | 3.07 | 1 | 0.25 | | 2.80 B | 3 | 0.63 | 21 |
| 22 | | 0.548 | 3 | 0.08 | 3.0 | 3.64 | 4.5 | 1.02 | | 3.27 B | 3 | 0.38 | 22 |
| 23 | | 0.565 | 1 | 0.08 | | 3.00 | 3 | 0.82 | | 3.12 B | 1 | 0.18 | 23 |
| 24 | | 0.653 | 3 | 0.10 | | 3.03 | 3 | 0.84 | | 1.97 B | 3 | 0.34 | 24 |
| 25 | | 1.03 | 4 | 0.78 | | 3.08 | 8 | 1.69 | | 1.83 B | 3 | 0.33 | 25 |
| 26 | 5.0 | 6.15 | 10.5 | 7.06 | | 3.05 | 6 | 2.00 | | 1.73 B | 3 | 0.30 | 26 |
| 27 | | 3.05 | 5 | 0.66 | | 3.06 | 1 | 0.23 | | 1.64 B | 1 | 0.16 | 27 |
| 28 | | 2.24 | 3 | 0.61 | | 3.09 | 3 | 0.40 | | 1.56 B | 1 | 0.16 | 28 |
| 29 | | 1.78 | 3 | 0.31 | | 3.13 | 3 | 0.37 | | 7.00 B | 3 | 2.33 | 29 |
| 30 | | 1.66 | 3 | 0.27 | | 3.33 | 1 | 0.30 | | 5.63 B | 3 | 2.18 | 30 |
| 31 | | 1.41 | 1 | 0.13 | | | | | | 5.40 B | 3 | 1.11 | 31 |
| TOTAL | | 38.085 | | 13.06 | | 110.63 | | 94.13 | | 117.31 | | 63.01 | TOTAL |
| MEAN | | 1.26 | | 0.42 | | 3.66 | | 3.14 | | 3.76 | | 1.99 | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 38 50 N
LONG 63 46 51 W
DRAINAGE AREA 93.2 km²
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01CD016

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.80 | 1 | 0.28 | | 1.05 B | 1 | 0.09 | 1.0 | 0.870 B | 1 B | 0.08 | 1 |
| 2 | | 2.48 | 1 | 0.21 | | 0.870 B | 1 | 0.08 | | 0.835 B | 1 | 0.07 | 2 |
| 3 | | 2.04 | 1 | 0.16 | 0.1 | 0.885 B | 3 B | 0.23 | 0.1 | 2.90 B | 4 B | 0.96 | 3 |
| 4 | | 1.64 B | 1 | 0.13 | 0.0 | 5.45 | 23 B | 10.4 | | 4.20 B | 3 | 0.73 | 4 |
| 5 | | 1.30 B | 3 | 0.34 | | 3.76 | 3 | 0.97 | | 3.05 B | 1 | 0.30 | 5 |
| 6 | 0.1 | 1.13 B | 2 B | 0.18 | | 3.10 B | 1 | 0.13 | | 2.80 B | 1 | 0.24 | 6 |
| 7 | | 0.960 B | 2 | 0.17 | | 1.88 B | 1 | 0.15 | | 2.35 B | 1 | 0.20 | 7 |
| 8 | | 0.870 B | 2 | 0.16 | | 1.58 B | 1 | 0.13 | | 1.98 B | 1 | 0.17 | 8 |
| 9 | | 0.800 B | 1 | 0.07 | | 1.43 B | 1 | 0.12 | | 1.80 B | 1 | 0.16 | 9 |
| 10 | 0.1 | 0.780 B | 2 B | 0.13 | | 1.33 B | 1 | 0.11 | 1.0 | 1.30 B | 1 B | 0.11 | 10 |
| 11 | 0.5 | 0.870 B | 3 B | 0.19 | | 1.23 B | 1 | 0.11 | | 1.08 | 1 | 0.17 | 11 |
| 12 | 2.0 | 10.0 B | 17 B | 14.9 | | 1.13 B | 3 | 0.29 | | 3.83 | 4 | 1.35 | 12 |
| 13 | 1.0 | 8.31 | 7 B | 5.03 | | 1.04 B | 5 | 0.45 | 1.0 | 8.02 | 17 B | 8.80 | 13 |
| 14 | | 6.62 | 5 | 3.11 | 0.1 | 0.970 B | 4 B | 0.34 | 0.1 | 7.37 | 15 B | 9.62 | 14 |
| 15 | | 3.13 B | 4 | 1.08 | 0.1 | 0.835 B | 4 B | 0.32 | 0.5 | 6.51 B | 12 B | 9.71 | 15 |
| 16 | 0.1 | 2.67 B | 5 B | 1.67 | | 0.690 B | 2 | 0.15 | | 3.09 | 3 | 1.03 | 16 |
| 17 | 10.0 | 1.83 | 3 | 1.03 | | 0.600 B | 1 | 0.07 | 0.4 | 2.63 | 1 B | 0.28 | 17 |
| 18 | | 2.32 | 2 | 0.83 | | 0.600 B | 1 | 0.07 | | 2.43 | 1 | 0.21 | 18 |
| 19 | | 2.67 | 2 | 0.83 | | 0.770 B | 1 | 0.07 | | 2.32 | 1 | 0.19 | 19 |
| 20 | | 3.00 B | 1 | 0.26 | | 0.735 B | 1 | 0.05 | 1.0 | 10.1 | 35 B | 31.0 | 20 |
| 21 | | 2.55 B | 1 | 0.22 | | 0.705 B | 1 | 0.05 | 3.0 | 13.8 | 7 B | 8.33 | 21 |
| 22 | | 2.27 B | 1 | 0.20 | | 0.675 B | 1 | 0.05 | 5.0 | 16.0 | 31 B | 43.0 | 22 |
| 23 | 0.1 | 2.00 B | 1 B | 0.17 | 0.1 | 0.855 B | 1 B | 0.06 | | 14.5 | 19 | 23.6 | 23 |
| 24 | 1.0 | 1.85 B | 3 B | 0.60 | | 0.838 B | 1 | 0.05 | | 7.17 | 6 | 3.68 | 24 |
| 25 | | 2.30 B | 1 | 0.20 | | 0.820 B | 1 | 0.05 | | 4.56 | 3 | 0.78 | 25 |
| 26 | | 2.05 B | 1 | 0.18 | | 0.810 B | 1 | 0.05 | | 3.30 | 3 | 0.67 | 26 |
| 27 | | 1.90 B | 1 | 0.16 | | 0.885 B | 1 | 0.05 | | 3.07 | 3 | 0.53 | 27 |
| 28 | | 1.80 B | 1 | 0.14 | | 0.960 B | 1 | 0.05 | | 2.81 | 1 | 0.22 | 28 |
| 29 | | 1.65 B | 1 | 0.13 | | | | | 3.0 | 3.36 | 3 B | 1.37 | 29 |
| 30 | | 1.35 B | 1 | 0.12 | | | | | | 3.01 | 1 | 0.48 | 30 |
| 31 | | 1.15 B | 1 | 0.10 | | | | | | 2.89 | 1 | 0.31 | 31 |
| TOTAL | | 90.880 | | 33.38 | | 34.880 | | 14.08 | | 147.115 | | 133.96 | TOTAL |
| MEAN | | 2.93 | | 1.08 | | 1.33 | | 0.53 | | 4.75 | | 4.31 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.70 | 1 | 0.23 | | 1.92 | 1 | 0.17 | | 1.55 | 1 | 0.13 | 1 |
| 2 | | 3.53 | 3 | 0.44 | 10.0 | 3.12 | 2 B | 0.37 | 10.0 | 3.33 | 1 B | 0.10 | 2 |
| 3 | 3.0 | 3.76 | 3 B | 0.48 | 10.0 | 5.76 | 4 B | 1.80 | 12.0 | 5.69 | 1 B | 0.23 | 3 |
| 4 | | 3.88 | 1 | 0.35 | 13.0 | 4.04 | 3 B | 0.85 | | 1.73 | 1 | 0.15 | 4 |
| 5 | 5.0 | 4.43 A | 6 B | 3.84 | | 3.61 | 1 | 0.39 | 11.0 | 3.66 | 3 B | 0.80 | 5 |
| 6 | | 7.86 | 3 | 1.33 | | 3.59 | 1 | 0.33 | | 1.96 | 1 | 0.17 | 6 |
| 7 | | 8.37 | 3 | 0.61 | | 1.81 | 1 | 0.17 | 15.0 | 3.19 | 1 B | 0.19 | 7 |
| 8 | | 4.67 | 1 B | 0.38 | | 1.55 | 1 | 0.13 | | 3.67 | 1 | 0.32 | 8 |
| 9 | 3.0 | 5.07 | 1 B | 0.44 | 15.0 | 1.80 | 1 B | 0.13 | | 1.80 | 1 | 0.14 | 9 |
| 10 | | 5.05 | 1 | 0.33 | | 3.80 | 3 | 0.76 | | 1.87 | 1 | 0.14 | 10 |
| 11 | 3.0 | 4.36 | 4 B | 1.01 | 10.0 | 3.01 | 1 B | 0.30 | 17.0 | 1.82 | 1 B | 0.11 | 11 |
| 12 | | 7.33 | 3 | 1.35 | 8.0 | 6.67 | 3 B | 1.76 | | 1.64 | 1 | 0.08 | 12 |
| 13 | 3.5 | 6.87 | 1 B | 0.63 | | 3.84 | 1 | 0.36 | | 1.81 | 1 | 0.10 | 13 |
| 14 | | 3.04 | 1 | 0.31 | | 2.75 | 1 | 0.24 | | 1.60 | 1 | 0.09 | 14 |
| 15 | | 3.03 | 1 | 0.33 | | 2.61 | 1 | 0.21 | | 0.857 | 1 | 0.07 | 15 |
| 16 | | 2.37 | 1 | 0.20 | 9.0 | 3.43 | 1 B | 0.31 | 14.0 | 0.802 | 1 B | 0.07 | 16 |
| 17 | | 3.00 | 1 | 0.23 | 9.0 | 3.00 | 0 B | 0.52 | | 0.805 | 1 | 0.06 | 17 |
| 18 | 4.5 | 4.00 | 1 B | 0.33 | 11.0 | 3.64 | 1 B | 0.36 | | 0.806 | 1 | 0.05 | 18 |
| 19 | 4.0 | 3.87 | 1 B | 0.34 | | 3.03 | 1 | 0.18 | | 0.837 | 1 | 0.06 | 19 |
| 20 | | 4.76 | 1 | 0.41 | | 1.80 | 1 | 0.13 | | 0.807 | 1 | 0.04 | 20 |
| 21 | | 3.03 | 2 | 0.61 | 10.5 | 4.63 | 3 B | 1.30 | | 0.810 | 1 | 0.03 | 21 |
| 22 | | 2.74 | 1 | 0.24 | | 3.69 | 1 | 0.32 | 13.0 | 0.805 | 1 B | 0.02 | 22 |
| 23 | | 3.04 | 1 | 0.18 | | 3.61 | 1 | 0.33 | | 0.861 | 1 | 0.03 | 23 |
| 24 | | 1.90 | 1 | 0.19 | | 1.83 | 1 | 0.16 | | 0.787 | 1 | 0.03 | 24 |
| 25 | 5.0 | 3.38 | 4 B | 1.18 | 5.0 | 1.75 A | 1 B | 0.16 | | 0.774 | 1 | 0.03 | 25 |
| 26 | 8.0 | 11.7 | 16 B | 16.9 | 7.0 | 7.07 A | 3 B | 1.96 | 13.5 | 0.834 | 1 B | 0.03 | 26 |
| 27 | 7.0 | 7.16 | 3 B | 1.34 | | 3.84 | 1 | 0.34 | | 0.819 | 1 | 0.02 | 27 |
| 28 | | 4.01 | 1 | 0.40 | 11.0 | 3.65 | 1 B | 0.36 | | 0.787 | 1 | 0.01 | 28 |
| 29 | | 3.15 | 1 | 0.27 | | 3.39 | 1 | 0.26 | | 0.119 | 1 | 0.01 | 29 |
| 30 | | 3.36 | 1 | 0.30 | | 1.83 | 1 | 0.14 | | 0.083 | 1 | 0.01 | 30 |
| 31 | | | | | | 1.87 | 1 | 0.14 | | | | | 31 |
| TOTAL | | 134.40 | | 33.34 | | 84.15 | | 14.35 | | 31.223 | | 3.97 | TOTAL |
| MEAN | | 4.34 | | 1.08 | | 3.04 | | 0.46 | | 1.04 | | 0.13 | MEAN |

NOVA SCOTIA

PEMBROKE RIVER AT GLENBERVIE - STATION NO. 01DG015

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CON-CENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CON-CENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CON-CENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.080 | 1 | 0.01 | 19.5 | 0.503 | 1 S | 0.04 | 15.0 | 4.80 | 3 S | 1.37 | 1 |
| 2 | 20.0 | 0.094 | 1 S | 0.01 | | 0.421 | 1 | 0.04 | 17.0 | 3.21 | 1 S | 0.26 | 2 |
| 3 | | 0.087 | 1 | 0.01 | | 0.470 | 1 | 0.04 | | 1.50 | 1 | 0.13 | 3 |
| 4 | | 0.188 | 1 | 0.02 | | 0.521 | 1 | 0.05 | | 1.17 | 1 | 0.10 | 4 |
| 5 | | 0.178 | 1 | 0.02 | | 0.483 | 1 | 0.04 | | 0.788 | 1 | 0.07 | 5 |
| 6 | | 0.151 | 1 | 0.01 | | 0.315 | 1 | 0.03 | 21.0 | 0.558 | 1 S | 0.05 | 6 |
| 7 | 18.5 | 0.139 | 1 S | 0.01 | 17.0 | 16.3 | 8 S | 11.1 | | 0.488 | 1 | 0.04 | 7 |
| 8 | | 0.154 | 1 | 0.01 | 16.0 | 5.70 | 3 S | 1.48 | | 0.397 | 1 | 0.03 | 8 |
| 9 | 18.5 | 0.118 | 1 S | 0.01 | | 2.80 A | 1 | 0.21 | | 0.349 | 1 | 0.03 | 9 |
| 10 | 18.5 | 0.194 | 1 S | 0.02 | 17.0 | 4.34 A | 1 S | 0.37 | | 0.288 | 1 | 0.03 | 10 |
| 11 | | 0.143 | 1 | 0.01 | | 3.35 | 1 | 0.29 | | 0.307 | 1 | 0.03 | 11 |
| 12 | | 0.098 | 1 | 0.01 | 14.0 | 8.51 | 3 S | 1.09 | | 0.533 | 1 | 0.05 | 12 |
| 13 | | 0.083 | 1 | 0.01 | 14.0 | 11.1 | 4 S | 3.84 | 17.0 | 0.378 | 1 S | 0.03 | 13 |
| 14 | 19.8 | 1.77 | 7 S | 1.07 | 15.0 | 4.75 | 1 S | 0.41 | | 0.380 | 1 | 0.03 | 14 |
| 15 | 14.0 | 0.680 | 1 S | 0.07 | | 3.05 | 1 | 0.26 | | 0.384 | 1 | 0.03 | 15 |
| 16 | 16.0 | 0.367 | 1 S | 0.03 | 17.5 | 3.01 | 1 S | 0.26 | | 0.336 | 1 | 0.03 | 16 |
| 17 | | 0.386 | 1 | 0.03 | | 2.18 | 1 | 0.18 | | 0.302 | 1 | 0.03 | 17 |
| 18 | | 0.210 | 1 | 0.02 | 16.5 | 1.83 | 1 S | 0.14 | 13.0 | 19.8 | 28 S | 42.1 | 18 |
| 19 | | 0.138 | 1 | 0.01 | | 1.88 | 1 | 0.13 | 17.0 | 8.06 | 3 S | 2.60 | 19 |
| 20 | | 0.139 | 1 | 0.01 | | 1.61 | 1 | 0.12 | | 4.07 | 3 | 1.05 | 20 |
| 21 | 18.5 | 0.480 | 1 S | 0.04 | | 1.03 | 1 | 0.09 | | 2.61 | 2 | 0.54 | 21 |
| 22 | 17.0 | 8.88 | 18 S | 13.3 | 17.0 | 0.776 | 1 S | 0.07 | | 1.77 | 2 | 0.31 | 22 |
| 23 | 16.0 | 15.8 | 8 S | 10.8 | | 0.720 | 1 | 0.06 | | 3.37 | 2 | 0.58 | 23 |
| 24 | 18.0 | 4.91 | 2 S | 0.88 | 18.5 | 0.617 | 1 S | 0.05 | | 2.13 | 1 | 0.18 | 24 |
| 25 | 17.0 | 2.88 | 2 S | 0.48 | | 0.535 | 1 | 0.05 | | 1.78 | 1 | 0.15 | 25 |
| 26 | | 1.80 | 1 | 0.16 | | 0.443 | 1 | 0.04 | | 1.46 | 1 | 0.12 | 26 |
| 27 | | 1.13 | 1 | 0.10 | | 0.361 | 1 | 0.03 | | 1.16 | 1 | 0.10 | 27 |
| 28 | | 1.00 | 1 | 0.09 | 16.0 | 0.357 | 1 S | 0.03 | 16.0 | 0.878 | 1 S | 0.08 | 28 |
| 29 | | 0.854 | 1 | 0.07 | | 0.331 | 1 | 0.03 | | 0.788 | 1 | 0.07 | 29 |
| 30 | | 0.843 | 1 | 0.06 | | 0.304 | 1 | 0.03 | | 0.677 | 1 | 0.06 | 30 |
| 31 | | 0.557 | 1 | 0.05 | | 0.305 | 1 | 0.02 | | | | | 31 |
| TOTAL | | 43.930 | | 27.38 | | 73.378 | | 30.83 | | 60.471 | | 50.80 | TOTAL |
| MEAN | | 1.42 | | 0.88 | | 2.37 | | 0.99 | | 2.02 | | 1.69 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CON-CENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CON-CENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CON-CENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.833 | 1 | 0.06 | | 0.816 | 1 | 0.07 | | 1.97 | 1 | 0.17 | 1 |
| 2 | | 0.654 | 1 | 0.05 | | 0.724 | 1 | 0.06 | | 1.88 | 1 | 0.16 | 2 |
| 3 | 17.0 | 0.656 | 1 S | 0.05 | | 0.662 | 1 | 0.06 | | 1.66 | 1 | 0.14 | 3 |
| 4 | | 0.570 | 1 | 0.05 | 7.5 | 0.688 | 1 S | 0.06 | | 1.33 | 1 | 0.11 | 4 |
| 5 | | 0.565 | 1 | 0.05 | | 0.673 | 1 | 0.05 | | 1.16 | 1 | 0.10 | 5 |
| 6 | 15.0 | 0.608 | 1 S | 0.05 | 8.5 | 4.10 | 13 S | 4.81 | | 1.06 | 1 | 0.09 | 6 |
| 7 | | 0.641 | 1 | 0.05 | 9.0 | 5.20 | 5 S | 4.77 | 5.0 | 4.18 | 3 S | 1.08 | 7 |
| 8 | | 0.433 | 1 | 0.04 | | 4.56 | 1 | 0.38 | | 3.48 | 1 | 0.30 | 8 |
| 9 | | 0.374 | 1 | 0.03 | | 3.86 | 1 | 0.35 | | 3.33 | 1 | 0.29 | 9 |
| 10 | | 0.374 | 1 | 0.03 | | 3.40 | 1 | 0.32 | 3.0 | 3.00 | 2 S | 0.55 | 10 |
| 11 | | 0.355 | 1 | 0.03 | 6.0 | 3.30 | 2 S | 0.57 | | 1.80 | 1 | 0.16 | 11 |
| 12 | | 0.386 | 1 | 0.03 | 4.0 | 3.60 | 4 S | 1.21 | | 1.78 B | 1 | 0.15 | 12 |
| 13 | | 0.637 | 1 | 0.04 | 5.5 | 4.77 | 2 S | 0.82 | | 1.72 A | 1 | 0.15 | 13 |
| 14 | 15.0 | 4.80 | 6 S | 2.48 | | 3.60 | 1 | 0.35 | 6.0 | 8.88 A | 18 S | 14.5 | 14 |
| 15 | 15.0 | 2.42 | 2 S | 0.42 | | 3.39 | 1 | 0.31 | 2.5 | 11.1 | 14 S | 13.4 | 15 |
| 16 | | 1.58 | 1 | 0.14 | 3.0 | 3.31 | 2 S | 0.60 | 0.1 | 11.3 | 4 S | 3.91 | 16 |
| 17 | | 1.27 | 1 | 0.11 | 5.0 | 12.6 | 5 S | 5.60 | | 7.21 | 3 | 1.86 | 17 |
| 18 | | 1.08 | 1 | 0.09 | | 4.91 | 1 | 0.60 | | 4.63 | 2 | 0.80 | 18 |
| 19 | | 1.03 | 1 | 0.09 | | 4.33 | 1 | 0.37 | | 3.58 B | 2 | 0.64 | 19 |
| 20 | | 0.844 | 1 | 0.07 | | 3.94 | 1 | 0.36 | | 3.04 B | 1 | 0.16 | 20 |
| 21 | | 0.730 | 1 | 0.07 | | 2.88 | 1 | 0.23 | | 1.88 B | 1 | 0.16 | 21 |
| 22 | | 0.683 | 1 | 0.06 | 7.0 | 2.81 | 1 S | 0.20 | | 1.70 B | 1 | 0.15 | 22 |
| 23 | | 0.654 | 1 | 0.06 | | 2.15 | 1 | 0.17 | | 1.60 B | 1 | 0.14 | 23 |
| 24 | | 0.673 | 1 | 0.06 | | 2.63 | 1 | 0.23 | | 1.53 B | 1 | 0.13 | 24 |
| 25 | 3.0 | 1.32 | 2 S | 0.21 | 7.0 | 2.64 | 3 S | 0.70 | | 1.47 B | 1 | 0.13 | 25 |
| 26 | 8.0 | 2.88 | 2 S | 0.50 | | 4.20 | 2 | 0.73 | | 1.44 B | 1 | 0.12 | 26 |
| 27 | | 1.88 | 2 | 0.34 | | 3.02 | 1 | 0.26 | | 1.43 B | 1 | 0.12 | 27 |
| 28 | | 1.60 | 2 | 0.26 | | 2.41 | 1 | 0.21 | | 1.38 B | 1 | 0.12 | 28 |
| 29 | 9.0 | 1.30 | 1 S | 0.11 | 9.0 | 1.88 | 1 S | 0.17 | | 2.09 B | 9 | 1.64 | 29 |
| 30 | | 1.03 | 1 | 0.08 | | 2.24 | 1 | 0.16 | | 6.10 B | 1 | 0.70 | 30 |
| 31 | | 0.834 | 1 | 0.08 | | | | | | 6.00 B | 1 | 0.67 | 31 |
| TOTAL | | 33.186 | | 5.61 | | 100.233 | | 28.39 | | 103.90 | | 41.80 | TOTAL |
| MEAN | | 1.07 | | 0.18 | | 3.34 | | 0.95 | | 3.35 | | 1.35 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 406.87 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | |
|---|---|
| MEAN | 3 |
| MAXIMUM DAILY | 31 ON MAR 22 |
| MINIMUM DAILY | 1 ON JAN 01 |

SUSPENDED SEDIMENT LOAD(t/d)

| | |
|---|---|
| MEAN | 1.11 |
| MAXIMUM DAILY | 43.0 ON MAR 22 |
| MINIMUM DAILY | 0.01 ON JUN 28 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 19 54 N
LONG 62 54 20 W
DRAINAGE AREA 73.2 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DE018

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.89 | 1 | 0.26 | | 1.05 B | 1 | 0.09 | 1.0 | 0.570 B | 1 S | 0.05 | 1 |
| 2 | | 2.45 | 1 | 0.21 | | 0.870 B | 1 | 0.08 | | 0.636 B | 1 | 0.07 | 2 |
| 3 | | 2.04 | 1 | 0.18 | 0.1 | 0.885 B | 3 S | 0.22 | 0.1 | 2.80 B | 4 S | 0.90 | 3 |
| 4 | | 1.84 B | 1 | 0.13 | 0.3 | 5.48 | 22 S | 10.4 | | 4.20 B | 2 | 0.73 | 4 |
| 5 | | 1.30 B | 3 | 0.34 | | 3.78 | 3 | 0.87 | | 3.45 B | 1 | 0.30 | 5 |
| 6 | 0.1 | 1.12 B | 2 S | 0.19 | | 2.10 B | 1 | 0.18 | | 2.80 B | 1 | 0.24 | 6 |
| 7 | | 0.980 B | 2 | 0.17 | | 1.88 B | 1 | 0.18 | | 2.35 B | 1 | 0.20 | 7 |
| 8 | | 0.870 B | 2 | 0.15 | | 1.88 B | 1 | 0.15 | | 1.85 B | 1 | 0.17 | 8 |
| 9 | | 0.800 B | 1 | 0.07 | | 1.48 B | 1 | 0.13 | | 1.60 B | 1 | 0.14 | 9 |
| 10 | 0.1 | 0.780 B | 2 S | 0.13 | | 1.33 B | 1 | 0.11 | 1.0 | 1.30 B | 1 S | 0.11 | 10 |
| 11 | 0.5 | 0.870 B | 3 S | 0.17 | | 1.23 B | 1 | 0.11 | | 1.08 | 1 | 0.17 | 11 |
| 12 | 2.0 | 10.0 B | 17 S | 14.7 | | 1.13 B | 3 | 0.29 | | 3.82 | 4 | 1.35 | 12 |
| 13 | 1.0 | 9.31 | 7 S | 5.63 | | 1.04 B | 5 | 0.45 | 1.0 | 6.02 | 17 S | 8.84 | 13 |
| 14 | | 6.82 | 5 | 2.61 | 0.1 | 0.970 B | 4 S | 0.34 | 0.1 | 7.27 | 15 S | 8.42 | 14 |
| 15 | | 3.13 B | 4 | 1.08 | 0.1 | 0.935 B | 4 S | 0.32 | 0.5 | 5.81 B | 12 S | 5.71 | 15 |
| 16 | 0.1 | 3.87 B | 5 S | 1.67 | | 0.890 B | 2 | 0.15 | | 3.99 | 3 | 1.03 | 16 |
| 17 | | 10.6 | 2 | 1.83 | | 0.840 B | 1 | 0.07 | 0.4 | 2.93 | 1 S | 0.25 | 17 |
| 18 | | 8.32 | 3 | 0.82 | | 0.800 B | 1 | 0.07 | | 2.43 | 1 | 0.21 | 18 |
| 19 | | 3.67 | 3 | 0.83 | | 0.770 B | 1 | 0.07 | | 2.32 | 1 | 0.19 | 19 |
| 20 | | 3.00 B | 1 | 0.26 | | 0.735 B | 1 | 0.06 | 1.0 | 10.1 | 25 S | 21.8 | 20 |
| 21 | | 2.85 B | 1 | 0.22 | | 0.705 B | 1 | 0.06 | 3.0 | 13.8 | 7 S | 8.23 | 21 |
| 22 | | 3.27 B | 1 | 0.20 | | 0.675 B | 1 | 0.06 | 5.0 | 18.0 | 31 S | 42.9 | 22 |
| 23 | 0.1 | 2.00 B | 1 S | 0.17 | 0.1 | 0.855 B | 1 S | 0.06 | | 14.5 | 19 | 23.6 | 23 |
| 24 | 1.0 | 1.95 B | 3 S | 0.80 | | 0.835 B | 1 | 0.05 | | 7.17 | 4 | 2.48 | 24 |
| 25 | | 2.30 B | 1 | 0.20 | | 0.820 B | 1 | 0.05 | | 4.88 | 2 | 0.78 | 25 |
| 26 | | 2.05 B | 1 | 0.18 | | 0.810 B | 1 | 0.05 | | 3.30 | 2 | 0.57 | 26 |
| 27 | | 1.80 B | 1 | 0.18 | | 0.885 B | 1 | 0.05 | | 3.07 | 3 | 0.83 | 27 |
| 28 | | 1.60 B | 1 | 0.14 | | 0.580 B | 1 | 0.05 | | 2.51 | 1 | 0.22 | 28 |
| 29 | | 1.45 B | 1 | 0.13 | | | | | 3.0 | 5.28 | 3 S | 1.37 | 29 |
| 30 | | 1.35 B | 1 | 0.12 | | | | | | 5.81 | 1 | 0.48 | 30 |
| 31 | | 1.15 B | 1 | 0.10 | | | | | | 3.89 | 1 | 0.31 | 31 |
| TOTAL | | 80.880 | | 33.07 | | 34.880 | | 14.85 | | 147.115 | | 133.98 | TOTAL |
| MEAN | | 2.93 | | 1.08 | | 1.25 | | 0.53 | | 4.75 | | 4.31 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.70 | 1 | 0.23 | | 1.92 | 1 | 0.17 | | 1.55 | 1 | 0.13 | 1 |
| 2 | | 2.63 | 2 | 0.44 | 10.0 | 2.12 | 2 S | 0.37 | 10.0 | 2.22 | 1 S | 0.18 | 2 |
| 3 | 3.0 | 2.78 | 2 S | 0.41 | 10.0 | 5.76 | 4 S | 1.88 | 12.0 | 2.88 | 1 S | 0.23 | 3 |
| 4 | | 2.89 | 1 | 0.25 | 12.0 | 4.84 | 2 S | 0.85 | | 1.72 | 1 | 0.15 | 4 |
| 5 | 5.0 | 8.42 A | 5 S | 3.84 | | 3.41 | 1 | 0.39 | 11.0 | 2.88 | 2 S | 0.80 | 5 |
| 6 | | 7.88 | 2 | 1.33 | | 2.88 | 1 | 0.32 | | 1.98 | 1 | 0.17 | 6 |
| 7 | | 5.27 | 2 | 0.81 | | 1.81 | 1 | 0.17 | 15.0 | 2.17 | 1 S | 0.18 | 7 |
| 8 | | 4.47 | 1 | 0.38 | | 1.55 | 1 | 0.13 | | 2.87 | 1 | 0.22 | 8 |
| 9 | 3.0 | 5.07 | 1 S | 0.44 | 15.0 | 1.80 | 1 S | 0.13 | | 1.80 | 1 | 0.14 | 9 |
| 10 | | 3.88 | 1 | 0.33 | | 2.90 | 3 | 0.75 | | 1.87 | 1 | 0.14 | 10 |
| 11 | 3.0 | 4.36 | 4 S | 1.61 | 10.0 | 3.01 | 1 S | 0.28 | 17.0 | 1.32 | 1 S | 0.11 | 11 |
| 12 | | 7.22 | 2 | 1.25 | 8.0 | 8.87 | 3 S | 1.78 | | 1.04 | 1 | 0.08 | 12 |
| 13 | 3.5 | 4.87 | 1 S | 0.42 | | 3.84 | 1 | 0.36 | | 1.21 | 1 | 0.10 | 13 |
| 14 | | 3.84 | 1 | 0.31 | | 2.75 | 1 | 0.24 | | 1.00 | 1 | 0.08 | 14 |
| 15 | | 2.82 | 1 | 0.23 | | 2.41 | 1 | 0.21 | | 0.887 | 1 | 0.07 | 15 |
| 16 | | 2.27 | 1 | 0.20 | 9.0 | 2.43 | 1 S | 0.21 | 14.0 | 0.802 | 1 S | 0.07 | 16 |
| 17 | | 2.80 | 1 | 0.22 | 7.0 | 3.00 | 2 S | 0.52 | | 0.885 | 1 | 0.08 | 17 |
| 18 | 4.5 | 4.00 | 1 S | 0.35 | 11.0 | 2.84 | 1 S | 0.26 | | 0.806 | 1 | 0.05 | 18 |
| 19 | 4.0 | 3.87 | 1 S | 0.34 | | 2.04 | 1 | 0.18 | | 0.537 | 1 | 0.08 | 19 |
| 20 | | 4.78 | 1 | 0.41 | | 1.88 | 1 | 0.13 | | 0.407 | 1 | 0.04 | 20 |
| 21 | | 3.53 | 2 | 0.81 | 10.5 | 4.02 | 3 S | 1.30 | | | | | |
| 22 | | 2.74 | 1 | 0.24 | | 3.89 | 1 | 0.32 | 18.0 | 0.312 | 1 | 0.03 | 21 |
| 23 | | 2.08 | 1 | 0.18 | | 2.61 | 1 | 0.22 | | 0.253 | 1 S | 0.02 | 22 |
| 24 | | 1.90 | 1 | 0.18 | | 1.83 | 1 | 0.16 | | 0.281 | 1 | 0.03 | 23 |
| 25 | 8.0 | 3.38 | 4 S | 1.18 | 8.0 | 1.73 A | 1 S | 0.15 | | 0.187 | 1 | 0.02 | 24 |
| 26 | 8.0 | 11.7 | 14 S | 14.2 | 7.0 | 7.67 A | 3 S | 1.88 | | 0.178 | 1 | 0.02 | 25 |
| 27 | 7.0 | 7.18 | 2 S | 1.24 | | 3.84 | 1 | 0.34 | 18.5 | 0.234 | 1 S | 0.02 | 26 |
| 28 | | 4.61 | 1 | 0.40 | 11.0 | 2.85 | 1 S | 0.26 | | 0.319 | 1 | 0.02 | 27 |
| 29 | | 3.15 | 1 | 0.27 | | 2.38 | 1 | 0.20 | | 0.157 | 1 | 0.01 | 28 |
| 30 | | 2.26 | 1 | 0.20 | | 1.83 | 1 | 0.15 | | 0.115 | 1 | 0.01 | 29 |
| 31 | | | | | | 1.67 | 1 | 0.14 | | 0.093 | 1 | 0.01 | 30 |
| | | | | | | | | | | | | | 31 |
| TOTAL | | 126.40 | | 32.34 | | 84.15 | | 14.35 | | 31.323 | | 2.87 | TOTAL |
| MEAN | | 4.28 | | 1.08 | | 3.04 | | 0.48 | | 1.04 | | 0.10 | MEAN |

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DS018

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.080 | 1 | 0.01 | 19.0 | 0.503 | 1 S | 0.04 | 15.0 | 4.90 | 3 S | 1.27 | 1 |
| 2 | 20.0 | 0.094 | 1 S | 0.01 | | 0.421 | 1 | 0.04 | 17.0 | 2.31 | 1 S | 0.20 | 2 |
| 3 | | 0.087 | 1 | 0.01 | | 0.470 | 1 | 0.04 | | 1.50 | 1 | 0.13 | 3 |
| 4 | | 0.185 | 1 | 0.02 | | 0.521 | 1 | 0.08 | | 1.17 | 1 | 0.10 | 4 |
| 5 | | 0.178 | 1 | 0.02 | | 0.433 | 1 | 0.04 | | 0.788 | 1 | 0.07 | 5 |
| 6 | | 0.151 | 1 | 0.01 | | 0.315 | 1 | 0.03 | 21.0 | 0.885 | 1 S | 0.08 | 6 |
| 7 | 16.5 | 0.139 | 1 S | 0.01 | 17.0 | 14 3 | 9 S | 11.1 | | 0.468 | 1 | 0.04 | 7 |
| 8 | | 0.154 | 1 | 0.01 | 18.0 | 5.70 | 3 S | 1.48 | | 0.397 | 1 | 0.03 | 8 |
| 9 | 16.5 | 0.116 | 1 S | 0.01 | | 2.40 A | 1 | 0.21 | | 0.360 | 1 | 0.03 | 9 |
| 10 | 16.5 | 0.194 | 1 S | 0.02 | 17.0 | 4.34 A | 1 S | 0.37 | | 0.295 | 1 | 0.03 | 10 |
| 11 | | 0.143 | 1 | 0.01 | | 3.35 | 1 | 0.29 | | 0.307 | 1 | 0.03 | 11 |
| 12 | | 0.094 | 1 | 0.01 | 16.0 | 6.31 | 2 S | 1.09 | | 0.533 | 1 | 0.05 | 12 |
| 13 | | 0.083 | 1 | 0.01 | 16.0 | 11.1 | 4 S | 3.84 | 17.0 | 0.378 | 1 S | 0.03 | 13 |
| 14 | 15.5 | 1.77 | 7 S | 1.07 | 15 0 | 4.75 | 1 S | 0.41 | | 0.380 | 1 | 0.03 | 14 |
| 15 | 14.0 | 0.850 | 1 S | 0.07 | | 3.02 | 1 | 0.26 | | 0.288 | 1 | 0.02 | 15 |
| 16 | 16.0 | 0.387 | 1 S | 0.03 | 17.5 | 2.91 | 1 S | 0.25 | | 0.238 | 1 | 0.02 | 16 |
| 17 | | 0.388 | 1 | 0.03 | | 2.18 | 1 | 0.19 | | 0.202 | 1 | 0.02 | 17 |
| 18 | | 0.210 | 1 | 0.02 | 16.5 | 1.82 | 1 S | 0.14 | 13.0 | 15.5 | 29 S | 42.1 | 18 |
| 19 | | 0.138 | 1 | 0.01 | | 1.58 | 1 | 0.13 | 17.0 | 8.09 | 4 S | 2.80 | 19 |
| 20 | | 0.139 | 1 | 0.01 | | 1.41 | 1 | 0.12 | | 4.07 | 3 | 1.05 | 20 |
| 21 | 19.5 | 0.488 | 1 S | 0.04 | | 1.03 | 1 | 0.08 | | 2.47 | 3 | 0.64 | 21 |
| 22 | 17.0 | 8.86 | 18 S | 13.3 | 17.0 | 0.778 | 1 S | 0.07 | | 1.77 | 2 | 0.31 | 22 |
| 23 | 15.0 | 15.6 | 8 S | 10.8 | | 0.729 | 1 | 0.06 | | 3.37 | 2 | 0.58 | 23 |
| 24 | 16.0 | 4.81 | 2 S | 0.85 | 18.5 | 0.617 | 1 S | 0.05 | | 2.12 | 1 | 0.18 | 24 |
| 25 | 17.0 | 2.89 | 2 S | 0.48 | | 0.535 | 1 | 0.05 | | 1.70 | 1 | 0.15 | 25 |
| 26 | | 1.90 | 1 | 0.15 | | 0.442 | 1 | 0.04 | | 1.44 | 1 | 0.12 | 26 |
| 27 | | 1.13 | 1 | 0.10 | | 0.351 | 1 | 0.03 | | 1.15 | 1 | 0.10 | 27 |
| 28 | | 1.09 | 1 | 0.09 | 18.0 | 0.357 | 1 S | 0.03 | 14.0 | 0.878 | 1 S | 0.08 | 28 |
| 29 | | 0.844 | 1 | 0.07 | | 0.321 | 1 | 0.03 | | 0.788 | 1 | 0.07 | 29 |
| 30 | | 0.843 | 1 | 0.06 | | 0.304 | 1 | 0.03 | | 0.877 | 1 | 0.08 | 30 |
| 31 | | 0.587 | 1 | 0.05 | | 0.308 | 1 | 0.03 | | | | | 31 |
| TOTAL | | 43.932 | | 27.38 | | 73.378 | | 20.63 | | 80.471 | | 80.40 | TOTAL |
| MEAN | | 1.42 | | 0.88 | | 2.37 | | 0.67 | | 2.02 | | 1.88 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 633 | 1 | 0.05 | | 0.814 | 1 | 0.07 | | 1.87 | 1 | 0.17 | 1 |
| 2 | | 0.884 | 1 | 0 05 | | 0.734 | 1 | 0.08 | | 1.55 | 1 | 0.14 | 2 |
| 3 | 17.0 | 0.556 | 1 S | 0 05 | | 0.882 | 1 | 0.08 | | 1.59 | 1 | 0.14 | 3 |
| 4 | | 0.570 | 1 | 0 05 | 7.5 | 0.699 | 1 S | 0.08 | | 1.33 | 1 | 0.11 | 4 |
| 5 | | 0.588 | 1 | 0.05 | | 0 673 | 1 | 0.08 | | 1.19 | 1 | 0.10 | 5 |
| 6 | 15 0 | 0.809 | 1 S | 0 05 | 9 5 | 4 10 | 13 S | 4.81 | | 1.04 | 1 | 0.09 | 6 |
| 7 | | 0.841 | 1 | 0.05 | 9.0 | 9 20 | 6 S | 4.77 | 5 0 | 4.18 | 3 S | 1.05 | 7 |
| 8 | | 0.432 | 1 | 0 04 | | 4 66 | 1 | 0.39 | | 3.48 | 1 | 0 30 | 8 |
| 9 | | 0 374 | 1 | 0.03 | | 3 08 | 1 | 0.26 | | 2.42 | 1 | 0.20 | 9 |
| 10 | | 0 374 | 1 | 0.03 | | 2.49 | 1 | 0 22 | 3.0 | 2.00 | 2 S | 0.35 | 10 |
| 11 | | 0.385 | 1 | 0.03 | 5.0 | 2.20 | 3 S | 0.57 | | 1.80 | 1 | 0 16 | 11 |
| 12 | | 0.386 | 1 | 0.03 | 4.0 | 3.69 | 6 S | 1.81 | | 1.76 B | 1 | 0.15 | 12 |
| 13 | | 0.437 | 1 | 0.04 | 5 5 | 4 77 | 2 S | 0.82 | | 1 72 A | 1 | 0 15 | 13 |
| 14 | 15.0 | 4.80 | 6 S | 2 49 | | 3 88 | 1 | 0.25 | 4.0 | 8.86 A | 15 S | 14 5 | 14 |
| 15 | 15.0 | 2.42 | 2 S | 0 42 | | 2.39 | 1 | 0.21 | 2.5 | 11 1 | 14 S | 13 4 | 15 |
| 16 | | 1.58 | 1 | 0 14 | 3.0 | 2 31 | 2 S | 0.40 | 0.1 | 11.3 | 4 S | 3.91 | 16 |
| 17 | | 1 27 | 1 | 0 11 | 5.0 | 12 6 | 8 S | 8.60 | | 7.21 | 3 | 1.35 | 17 |
| 18 | | 1.09 | 1 | 0 09 | | 5 82 | 1 | 0 86 | | 4 63 | 3 | 0.80 | 18 |
| 19 | | 1.03 | 1 | 0.08 | | 4 32 | 1 | 0.37 | | 2.66 B | 2 | 0.44 | 19 |
| 20 | | 0 844 | 1 | 0.07 | | 3 24 | 1 | 0.28 | | 2.05 B | 1 | 0.18 | 20 |
| 21 | | 0 830 | 1 | 0.07 | | 2 65 | 1 | 0.23 | | 1.84 B | 1 | 0.15 | 21 |
| 22 | | 0 882 | 1 | 0 06 | 7.0 | 2 81 | 2 S | 0.50 | | 1.70 B | 1 | 0 15 | 22 |
| 23 | | 0 594 | 1 | 0.05 | | 3 15 | 1 | 0.27 | | 1.80 B | 1 | 0 14 | 23 |
| 24 | | 0 673 | 1 | 0 06 | | 2 62 | 1 | 0.23 | | 1.53 B | 1 | 0 13 | 24 |
| 25 | 2 0 | 1.22 | 2 S | 0.21 | 7 0 | 2 84 | 3 S | 0.74 | | 1.47 B | 1 | 0 13 | 25 |
| 26 | 5.0 | 2.86 | 2 S | 0 50 | | 4 20 | 2 | 0.73 | | 1.44 B | 1 | 0 12 | 26 |
| 27 | | 1 68 | 2 | 0.34 | | 2 82 | 1 | 0.25 | | 1.42 B | 1 | 0 12 | 27 |
| 28 | | 1 60 | 2 | 0.28 | | 2 41 | 1 | 0 21 | | 1.38 B | 1 | 0 12 | 28 |
| 29 | 5.0 | 1.30 | 1 S | 0 11 | 5.0 | 1 89 | 1 S | 0.17 | | 3.05 B | 7 | 1 04 | 29 |
| 30 | | 1.02 | 1 | 0.09 | | 2.24 | 1 | 0.19 | | 5.10 B | 1 | 0 70 | 30 |
| 31 | | 0.938 | 1 | 0.08 | | | | | | 6.80 B | 1 | 0.87 | 31 |
| TOTAL | | 33 188 | | 5.81 | | 100.232 | | 28.28 | | 103.80 | | 41.80 | TOTAL |
| MEAN | | 1.07 | | 0.19 | | 3.34 | | 0.88 | | 3.35 | | 1.35 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 406.87 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 5 | |
| MAXIMUM DAILY | 31 | ON MAR 22 |
| MINIMUM DAILY | 1 | ON JAN 01 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 1.11 | |
| MAXIMUM DAILY | 42.9 | ON MAR 22 |
| MINIMUM DAILY | 0.01 | ON JUN 28 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 15 54 N
LONG 62 56 29 W
DRAINAGE AREA 73.3 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

# ONTARIO

## AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 14.2 | 17 | 20.9 | | 4.88 | 18 | 8.78 | | 9.03 | 22 | 17.2 | 1 |
| 2 | | 11.5 | 15 | 14.9 | | 5.88 | 15 | 7.38 | | 8.15 | 23 | 16.2 | 2 |
| 3 | | 9.43 | 15 | 12.2 | | 38.0 | 105 | 327 | 5.0 | 7.80 | 21 S | 13.8 | 3 |
| 4 | | 8.41 S | 15 S | 10.5 | | 43.4 | 89 | 334 | | 7.24 | 23 | 14.4 | 4 |
| 5 | | 8.82 | 12 | 8.96 | | 31.8 | 29 | 79.2 | | 8.98 | 28 | 17.5 | 5 |
| 6 | | 8.90 | 10 | 7.89 | | 25.8 | 29 | 86.6 | | 8.88 | 34 | 19.7 | 6 |
| 7 | | 8.38 | 9 | 7.30 | | 18.5 | 30 | 48.0 | | 8.84 | 38 | 22.0 | 7 |
| 8 | | 10.4 | 8 | 8.09 | | 13.5 S | 28 | 32.7 | 10.0 | 8.80 | 38 S | 20.2 | 8 |
| 9 | | 11.1 | 7 S | 8.71 | | 10.5 S | 25 | 23.5 | | 8.59 | 37 | 21.1 | 9 |
| 10 | | 11.8 | 80 | 81.7 | | 8.00 S | 31 | 21.4 | | 8.82 | 43 S | 24.8 | 10 |
| 11 | | 35.0 E | 180 S | 544 | | 8.40 S | 34 | 18.8 | | 8.47 | 40 | 22.4 | 11 |
| 12 | | 30.5 E | 33 | 87.0 | | 5.80 S | 32 | 16.0 | | 8.05 | 34 | 17.8 | 12 |
| 13 | | 26.0 S | 15 | 33.7 | | 5.40 S | 30 | 14.0 | | 8.58 | 28 | 13.5 | 13 |
| 14 | | 21.2 | 15 | 27.5 | | 5.20 S | 34 | 15.3 | 3.0 | 5.15 | 25 E | 11.8 | 14 |
| 15 | | 17.8 | 14 | 21.7 | | 5.87 | 38 | 19.1 | | 4.87 | 30 | 12.6 | 15 |
| 16 | | 12.5 S | 14 | 15.1 | | 8.43 | 41 | 22.8 | | 4.58 | 31 | 12.3 | 16 |
| 17 | | 10.8 S | 15 | 14.0 | | 10.8 | 40 | 36.6 | 5.0 | 4.27 | 29 S | 10.7 | 17 |
| 18 | | 10.2 S | 14 | 12.3 | | 15.7 | 41 | 55.8 | | 4.02 | 30 | 10.4 | 18 |
| 19 | | 9.30 S | 13 | 10.4 | 0.1 | 16.0 | 44 S | 60.8 | | 4.19 | 34 | 12.3 | 19 |
| 20 | | 8.80 S | 13 | 9.88 | | 16.8 | 46 | 68.8 | | 5.41 | 80 | 28.0 | 20 |
| 21 | | 8.30 S | 11 | 7.88 | 0.1 | 16.5 | 41 S | 65.9 | | 6.31 | 57 | 31.1 | 21 |
| 22 | | 7.90 S | 14 | 8.56 | | 19.0 | 47 | 77.2 | | 6.73 | 32 | 18.8 | 22 |
| 23 | | 7.50 S | 15 | 8.72 | | 38.0 | 142 | 478 | | 5.77 | 19 | 8.47 | 23 |
| 24 | | 7.40 S | 15 | 10.2 | 0.1 | 37.5 | 89 S | 224 | 3.0 | 5.52 | 15 S | 7.15 | 24 |
| 25 | | 7.90 S | 17 | 11.6 | | 28.2 | 46 | 104 | | 5.22 | 15 | 6.12 | 25 |
| 26 | | 7.00 S | 14 | 8.47 | | 18.2 | 28 | 44.0 | | 5.31 | 21 | 9.83 | 26 |
| 27 | | 5.30 S | 12 | 5.80 | 0.1 | 13.2 | 18 S | 18.2 | | 5.35 | 28 | 14.3 | 27 |
| 28 | | 4.60 S | 11 | 4.37 | | 10.6 | 17 | 15.4 | | 13.0 | 103 | 116 | 28 |
| 29 | | 4.20 S | 13 | 4.72 | | | | | | 24.2 | 91 | 190 | 29 |
| 30 | | 4.55 | 14 | 5.80 | | | | | 1.0 | 20.8 | 47 S | 84.9 | 30 |
| 31 | | 4.57 | 14 | 5.53 | | | | | 3.0 | 16.9 | 48 S | 70.1 | 31 |
| TOTAL | | 355.27 | | 1 017.97 | | 474.47 | | 2 287.02 | | 238.79 | | 897.87 | TOTAL |
| MEAN | | 11.5 | | 32.8 | | 16.9 | | 82.0 | | 7.70 | | 29.0 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 14.0 | 48 | 58.1 | | 26.8 | 195 S | 448 | 15.0 | 14.8 | 118 S | 169 | 1 |
| 2 | | 11.4 | 47 | 46.3 | | 48.8 | 209 S | 878 | | 14.2 | 85 | 104 | 2 |
| 3 | | 8.76 | 47 | 38.8 | 7.0 | 76.5 | 582 S | 3 860 | | 11.3 | 84 | 82.0 | 3 |
| 4 | | 8.75 | 46 | 34.8 | 7.0 | 45.5 | 88 S | 339 | 15.0 | 11.4 | 102 S | 100 | 4 |
| 5 | | 7.92 | 45 | 30.8 | | 28.7 | 76 | 188 | | 11.7 | 93 | 98.0 | 5 |
| 6 | | 7.28 | 44 | 27.7 | 5.0 | 19.4 | 93 S | 156 | 12.0 | 18.0 | 108 S | 185 | 6 |
| 7 | 10.0 | 7.28 | 47 S | 29.8 | | 14.4 | 102 | 127 | 16.0 | 24.2 | 106 S | 217 | 7 |
| 8 | | 8.92 | 76 | 58.8 | | 12.8 | 113 S | 126 | | 18.0 | 101 | 157 | 8 |
| 9 | | 8.90 | 108 | 83.8 | | 12.2 | 94 | 99.1 | | 13.6 | 93 | 116 | 9 |
| 10 | 8.0 | 35.7 | 712 S | 2 200 | | 0.8 | 76 | 72.8 | | 10.7 | 97 | 88.7 | 10 |
| 11 | | 41.3 | 166 S | 584 | | 9.81 | 70 | 58.3 | | 6.46 | 100 | 73.1 | 11 |
| 12 | | 27.3 | 82 | 217 | | 8.56 | 84 | 47.3 | 24.0 | 6.82 | 109 S | 64.2 | 12 |
| 13 | | 19.8 | 68 | 116 | | 7.38 | 80 | 38.3 | | 6.84 | 105 | 61.3 | 13 |
| 14 | 5.0 | 16.6 | 280 S | 402 | | 6.98 | 83 S | 35.7 | | 5.00 | 100 | 43.2 | 14 |
| 15 | | 32.4 | 402 | 1 130 | | 7.91 | 91 | 62.2 | | 4.29 | 98 | 36.3 | 15 |
| 16 | | 24.3 | 65 | 136 | | 7.88 | 82 | 43.3 | | 3.86 | 92 | 31.5 | 16 |
| 17 | | 16.3 | 49 | 77.5 | | 6.48 | 82 | 29.1 | | 3.42 | 87 | 25.7 | 17 |
| 18 | | 16.3 | 38 | 56.8 | | 5.81 | 81 S | 24.7 | | 3.08 | 80 | 21.4 | 18 |
| 19 | | 15.1 | 34 | 44.4 | | 7.20 | 230 | 143 | | 2.88 | 72 | 16.7 | 19 |
| 20 | | 13.8 | 29 | 34.8 | | 41.5 | 322 S | 1 160 | 22.5 | 2.36 | 89 S | 14.1 | 20 |
| 21 | 8.0 | 13.3 | 27 S | 31.0 | 14.0 | 28.0 | 86 S | 237 | | 2.15 | 87 | 12.4 | 21 |
| 22 | | 12.3 | 33 | 35.1 | 18.0 | 21.5 | 87 S | 124 | | 1.93 | 88 | 11.3 | 22 |
| 23 | | 10.7 | 48 S | 46.3 | | 18.0 | 88 | 108 | | 1.89 | 87 | 9.78 | 23 |
| 24 | | 9.14 | 52 | 41.1 | 17.0 | 14.0 | 87 S | 105 | 21.0 | 1.45 | 87 S | 8.38 | 24 |
| 25 | | 7.80 | 50 | 34.1 | | 11.5 | 90 | 89.4 | | 1.35 | 70 | 8.23 | 25 |
| 26 | | 7.01 | 50 | 30.3 | | 10.4 | 84 | 75.5 | | | | | 26 |
| 27 | | 6.38 | 62 | 33.8 | | 8.97 | 77 | 59.7 | 25.0 | 1.28 | 70 | 7.80 | 27 |
| 28 | | 5.73 | 84 | 26.7 | 14.0 | 7.94 | 70 S | 48.0 | | 1.15 | 78 S | 7.46 | 28 |
| 29 | | 5.38 | 88 | 37.5 | | 7.40 | 78 | 48.8 | 25.0 | 1.57 | 83 | 11.3 | 29 |
| 30 | | 7.55 | 109 | 71.1 | | 10.0 | 104 | 89.9 | | 2.51 | 107 S | 23.2 | 30 |
| 31 | | | | | 12.0 | 10.3 | 89 S | 79.2 | | 2.35 | 86 | 17.5 | 31 |
| TOTAL | | 431.51 | | 5 780.9 | | 552.57 | | 8 975.1 | | 210.88 | | 1 770.46 | TOTAL |
| MEAN | | 14.4 | | 187 | | 17.8 | | 290 | | 7.03 | | 59.0 | MEAN |

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2.23 | 85 | 16.4 | | 11.9 | 338 | 348 | | 0.650 E | 63 | 3.54 | 1 |
| 2 | | 1.80 | 86 | 14.1 | 25.0 | 13.4 | 177 S | 205 | | 0.620 E | 61 | 3.32 | 2 |
| 3 | | 1.61 | 83 | 11.8 | | 5.89 | 109 | 53.0 | | 0.520 E | 64 | 3.43 | 3 |
| 4 | | 1.39 | 92 | 11.0 | | 8.12 | 128 | 56.6 | 26.5 | 0.510 E | 88 S | 3.48 | 4 |
| 5 | | 1.89 | 130 | 21.2 | | 8.98 | 261 | 218 | | 0.800 E | 86 | 3.42 | 5 |
| 6 | 23.0 | 2.72 | 153 S | 36.1 | | 7.86 | 271 | 179 | | 0.880 E | 85 | 3.28 | 6 |
| 7 | | 1.75 | 136 | 20.8 | | 4.78 | 207 | 85.1 | | 0.850 E | 84 | 3.04 | 7 |
| 8 | | 1.35 | 137 | 16.0 | 26.0 | 3.62 | 169 S | 84.7 | 25.0 | 0.840 E | 84 S | 3.08 | 8 |
| 9 | | 1.08 | 141 | 13.2 | | 2.68 | 173 | 37.1 | | 0.830 E | 89 | 3.15 | 9 |
| 10 | | 0.906 | 147 | 11.5 | | 1.83 | 167 | 26.4 | | 0.820 E | 89 | 3.10 | 10 |
| 11 | | 0.753 | 151 | 9.82 | 22.0 | 1.67 | 168 S | 20.1 | | 0.800 E | 78 | 3.28 | 11 |
| 12 | | 0.672 | 154 S | 8.94 | | 2.32 | 182 | 36.5 | 22.0 | 0.500 E | 79 S | 3.41 | 12 |
| 13 | | 0.618 | 153 | 8.18 | | 3.00 | 198 | 50.8 | 22.0 | 0.430 | 47 S | 1.75 | 13 |
| 14 | | 0.592 | 154 | 7.88 | | 2.28 | 148 | 28.8 | | 0.416 | 39 | 1.40 | 14 |
| 15 | | 0.573 | 152 | 7.83 | | 2.14 | 142 | 26.3 | | 0.427 | 41 | 1.51 | 15 |
| 16 | 32.0 | 0.555 | 151 S | 7.24 | 20.0 | 1.81 | 130 S | 20.3 | | 0.505 | 48 | 2.01 | 16 |
| 17 | | 0.630 | 152 | 8.27 | | 1.87 | 129 | 18.8 | | 0.520 | 44 | 1.98 | 17 |
| 18 | | 0.804 | 151 | 7.88 | | 1.40 E | 137 | 16.5 | | 0.547 | 41 | 1.84 | 18 |
| 19 | | 0.629 | 151 | 8.21 | | 1.10 E | 141 | 13.4 | 23.0 | 0.598 | 40 S | 2.07 | 19 |
| 20 | 27.0 | 0.627 | 151 S | 8.18 | 26.0 | 0.880 E | 148 S | 11.0 | | 0.710 | 40 | 2.45 | 20 |
| 21 | | 0.590 | 149 | 7.60 | | 0.760 E | 153 | 9.91 | | 1.25 | 47 | 5.48 | 21 |
| 22 | | 0.581 | 152 | 7.63 | | 0.800 E | 149 | 10.3 | 17.0 | 4.16 | 81 S | 29.1 | 22 |
| 23 | 24.5 | 0.588 | 155 S | 8.38 | 25.0 | 0.[illegible] E | 123 S | 9.03 | | 5.45 | 170 | 80.0 | 23 |
| 24 | | 0.540 | 161 | 7.51 | | [illegible] E | 120 | 9.86 | | 5.53 | 182 | 87.0 | 24 |
| 25 | | 0.491 | 147 | 6.24 | | [illegible] E | 130 | 11.2 | | 5.09 | 180 | 70.4 | 25 |
| 26 | 25.0 | 0.485 | 129 S | 5.41 | | [illegible] E | 106 | 8.70 | | 4.52 | 132 | 51.5 | 26 |
| 27 | | 0.526 | 125 | 5.86 | | [illegible] E | 92 | 6.78 | | 4.29 | 102 | 37.8 | 27 |
| 28 | | 0.539 | 124 | 5.77 | 27.0 | [illegible] E | 85 S | 5.88 | | 3.67 | 81 | 25.7 | 28 |
| 29 | | 0.637 | 139 | 7.66 | | 0.750 E | 79 | 5.12 | 18.0 | 2.57 | 74 S | 16.4 | 29 |
| 30 | 26.0 | 2.40 | 189 S | 39.2 | | 0.700 E | 74 | 4.48 | | 1.82 | 68 | 10.7 | 30 |
| 31 | | 5.09 | 171 | 75.2 | 25.5 | 0.680 E | 68 S | 4.00 | | | | | 31 |
| TOTAL | | 35.555 | | 430.00 | | 93.370 | | 1 800.53 | | 49.433 | | 486.71 | TOTAL |
| MEAN | | 1.15 | | 13.9 | | 3.01 | | 51.8 | | 1.65 | | 15.8 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.51 | 83 | 8.22 | | 1.38 | 15 | 1.78 | | 12.8 | 41 | 44.6 | 1 |
| 2 | | 1.07 | 82 | 5.73 | 9.0 | 1.34 | 12 S | 1.38 | | 10.9 | 19 | 17.9 | 2 |
| 3 | | 0.883 | 80 | 4.89 | | 1.87 | 28 | 4.52 | | 8.87 | 16 | 12.3 | 3 |
| 4 | | 0.820 | 58 | 4.61 | | 2.82 | 41 | 9.99 | | 7.17 | 13 | 8.05 | 4 |
| 5 | 19.0 | 0.888 | 97 S | 4.26 | | 3.17 | 53 | 14.5 | 3.0 | 8.28 | 8 S | 4.34 | 5 |
| 6 | | 0.840 | 54 | 3.92 | | 3.52 | 82 | 18.9 | | 12.2 | 93 | 98.0 | 6 |
| 7 | | 0.841 | 53 | 3.85 | | 3.20 | 51 | 14.1 | | 50.1 | 359 | 1 550 | 7 |
| 8 | | 0.870 | 51 | 3.83 | 7.0 | 2.60 | 31 S | 6.95 | | 33.4 | 77 | 222 | 8 |
| 9 | | 0.880 | 44 | 3.27 | | 2.17 | 18 | 3.65 | | 23.3 | 51 | 103 | 9 |
| 10 | | 0.872 | 38 | 2.88 | 10.0 | 1.68 | 13 S | 2.11 | | 16.0 | 30 | 41.5 | 10 |
| 11 | | 0.842 | 37 | 2.69 | | 2.14 | 29 | 5.36 | | 12.5 | 27 | 29.2 | 11 |
| 12 | 15.0 | 0.844 | 33 S | 2.69 | | 4.45 | 88 | 34.2 | 3.0 | 29.0 | 204 S | 511 | 12 |
| 13 | 14.0 | 1.03 | 36 S | 3.34 | | 4.57 | 75 | 29.5 | | 75.1 | 287 | 1 930 | 13 |
| 14 | | 1.05 | 33 | 2.99 | | 4.48 | 62 | 24.0 | 2.7 | 55.5 | 33 S | 158 | 14 |
| 15 | | 1.04 | 29 | 2.71 | | 4.29 | 53 | 19.5 | | 43.5 | 25 | 94.5 | 15 |
| 16 | | 1.12 | 24 | 2.32 | | 5.12 | 63 | 27.9 | | 31.0 | 26 | 69.5 | 16 |
| 17 | | 1.16 | 17 | 1.70 | | 10 9 | 271 | 255 | | 21.2 | 27 | 49.7 | 17 |
| 18 | | 1.23 | 13 | 1.37 | 8.0 | 11 5 | 54 S | 53.7 | | 15.0 B | 31 | 40.2 | 18 |
| 19 | | 1.24 | 11 | 1.18 | | 10.3 | 30 | 26.7 | | 10 5 B | 30 | 27.2 | 19 |
| 20 | | 1.15 | 12 | 1.19 | | 9.83 | 24 | 20.8 | | 9.00 B | 27 | 21.0 | 20 |
| 21 | | 1.05 | 13 | 1.18 | 12.0 | 9.67 | 22 S | 18.4 | | 8.20 B | 28 | 22.3 | 21 |
| 22 | 9.0 | 0.996 | 12 S | 1.03 | | 8.38 | 18 | 13.8 | 0.1 | 10.0 B | 33 S | 28.5 | 22 |
| 23 | | 1.14 | 16 | 1.56 | | 7.31 | 22 | 13.7 | | 10.8 B | 47 | 43.9 | 23 |
| 24 | | 1.45 | 29 | 3.83 | | 7.35 | 29 | 18.4 | | 9.20 B | 38 | 30.2 | 24 |
| 25 | | 1.39 | 32 | 3.84 | | 7.29 | 31 | 19.5 | | 7.40 B | 31 | 19.8 | 25 |
| 26 | | 2.50 E | 24 | 5.18 | | 8.50 | 23 | 12.9 | | 8.40 B | 27 | 14.9 | 26 |
| 27 | | 2.20 E | 20 | 3.80 | | 5.89 | 22 | 10.8 | | 4.70 B | 29 | 11.9 | 27 |
| 28 | | 2.00 E | 18 | 3.11 | 5.0 | 5.62 | 14 S | 6.80 | | 4.00 B | 31 | 10.7 | 28 |
| 29 | | 1.68 | 16 | 2.34 | | 14.2 | 188 | 232 | | 3.60 B | 34 | 10.6 | 29 |
| 30 | | 1.65 | 14 | 2.00 | | 15.8 | 105 | 143 | | 3.35 B | 33 | 9.85 | 30 |
| 31 | | 1.48 | 14 | 1.79 | | | | | | 3.15 B | 34 | 9.25 | 31 |
| TOTAL | | 37.888 | | 97.24 | | 179.32 | | 1 083.75 | | 555.42 | | 5 244.89 | TOTAL |
| MEAN | | 1.23 | | 3.14 | | 5.98 | | 35.5 | | 17.9 | | 169 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 29 825.03 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 107 | |
| MAXIMUM DAILY | 712 | ON APR 10 |
| MINIMUM DAILY | 7 | ON JAN 09 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 81.2 | |
| MAXIMUM DAILY | 3 850 | ON MAY 03 |
| MINIMUM DAILY | 1.03 | ON OCT 22 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 04 20 N
LONG 81 39 35 W
DRAINAGE AREA 885 $km^2$
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.001 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 19 | 16:40 | 35.7 H | 8.0 | 709 X | 44 | 53 | 75 | 93 | 98 | 99 | 100 | | | | | BNW |
| MAY 03 | 10:00 | 76.5 H | 5.0 | 848 X | 31 | 41 | 75 | 89 | 94 | 98 | 97 | 99 | 100 | | | BNW |

H - DAILY MEAN DISCHARGE

X - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

BIG CREEK NEAR WALSINGHAM - STATION NO. 02EC007

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 14.2 | 63 | 77.3 | 2.0 | 6.12 | 44 S | 23.3 | 4.5 | 8.10 | 43 S | 30.1 | 1 |
| 2 | | 12.2 | 68 | 82.2 | | 6.81 | 149 | 111 | | 7.82 | 63 | 29.1 | 2 |
| 3 | | 10.8 | 88 | 81.3 | 2.0 | 15.8 | 741 S | 1 250 | 5.5 | 7.85 | 63 S | 28.4 | 3 |
| 4 | 2.0 | 9.78 | 50 S | 42.2 | | 20.8 | 287 | 515 | | 7.88 | 48 | 29.5 | 4 |
| 5 | | 9.15 | 47 | 37.2 | | 15.2 | 148 | 233 | 7.5 | 7.58 | 64 S | 35.3 | 5 |
| 6 | 3.0 | 8.68 | 43 S | 32.8 | | 15.7 | 103 | 140 | | 7.61 | 71 | 48.7 | 6 |
| 7 | | 8.70 | 42 | 31.6 | | 12.7 | 87 | 108 | | 8.18 | 84 | 59.2 | 7 |
| 8 | 3.0 | 8.58 | 40 S | 28.7 | 1.0 | 10.2 | 82 S | 81.1 | 8.5 | 8.31 | 73 S | 52.4 | 8 |
| 9 | | 8.23 | 38 | 27.7 | | 8.83 | 70 | 84.0 | | 8.27 | 83 | 44.3 | 9 |
| 10 | | 8.06 | 47 | 32.7 | 0.1 | 7.86 | 62 | 27.8 | 8.5 | 8.40 | 80 S | 43.5 | 10 |
| 11 | 4.0 | 10.5 | 57 S | 68.0 | | 7.50 E | 45 | 29.2 | | 8.81 | 72 | 53.8 | 11 |
| 12 | | 11.9 | 38 | 40.1 | | 7.20 E | 42 | 28.1 | | 8.22 | 55 | 39.1 | 12 |
| 13 | 1.0 | 10.9 | 60 S | 47.1 | | 7.00 E | 37 | 22.4 | | 7.71 | 43 | 28.6 | 13 |
| 14 | | 10.5 | 82 | 58.4 | 1.0 | 6.95 E | 45 S | 27.1 | 6.0 | 7.35 | 39 S | 24.8 | 14 |
| 15 | | 10.7 | 84 | 68.2 | | 6.80 E | 78 | 45.8 | | 7.09 | 38 | 23.2 | 15 |
| 16 | | 9.58 | 45 | 37.3 | 1.0 | 6.89 | 88 S | 38.1 | | 8.74 | 37 | 21.5 | 16 |
| 17 | 0.1 | 8.58 | 35 S | 25.8 | | 7.14 | 74 | 45.7 | 7.5 | 8.63 | 34 S | 19.2 | 17 |
| 18 | | 7.00 E | 28 | 16.8 | 3.5 | 7.80 | 70 S | 46.0 | | 8.40 | 37 | 20.5 | 18 |
| 19 | | 8.90 E | 38 | 15.3 | | 7.82 | 88 | 43.5 | | 7.31 | 74 | 48.1 | 19 |
| 20 | | 6.75 E | 27 | 15.7 | | 7.84 | 65 | 42.9 | | 8.20 | 87 | 61.6 | 20 |
| 21 | | 6.70 E | 48 | 27.8 | 5.0 | 7.97 | 65 S | 44.8 | | 8.14 | 84 | 45.0 | 21 |
| 22 | | 8.75 E | 128 | 72.8 | | 8.28 | 83 | 45.1 | | 8.23 | 62 | 44.1 | 22 |
| 23 | 1.0 | 8.80 E | 105 S | 82.8 | | 8.87 | 71 | 55.0 | 2.0 | 8.13 | 43 S | 30.2 | 23 |
| 24 | 1.0 | 7.49 | 82 S | 40.1 | 4.0 | 8.87 | 98 S | 84.4 | | 7.47 | 34 | 21.8 | 24 |
| 25 | | 7.02 | 84 | 32.8 | | 10.5 | 121 | 110 | 2.0 | 7.08 | 30 S | 18.4 | 25 |
| 26 | 1.5 | 8.85 | 82 S | 28.9 | 3.0 | 10.3 | 98 S | 89.8 | | 8.80 | 25 | 14.7 | 26 |
| 27 | | 8.35 | 67 | 25.8 | | 8.38 | 85 | 62.5 | | 8.81 | 28 | 18.7 | 27 |
| 28 | 0.1 | 8.27 | 44 S | 23.8 | | 8.58 | 50 | 37.1 | | 7.89 | 60 | 32.7 | 28 |
| 29 | | 8.08 | 47 | 24.6 | | | | | 4.0 | 8.02 | 58 S | 38.8 | 29 |
| 30 | | 8.15 | 70 | 37.3 | | | | | | 8.12 | 52 | 38.5 | 30 |
| 31 | | 8.36 | 73 | 40.1 | | | | | 5.0 | 8.07 | 48 S | 32.1 | 31 |
| TOTAL | | 284.85 | | 1 248.4 | | 275.13 | | 3 428.5 | | 238.03 | | 1 087.8 | TOTAL |
| MEAN | | 8.64 | | 40.2 | | 9.83 | | 122 | | 7.88 | | 36.4 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 7.97 | 41 | 28.2 | | 13.4 | 328 | 380 | | | | | |
| 2 | | 7.55 | 33 | 21.5 | 12.5 | 15.8 | 285 S | 382 | 12.5 | 6.25 | 124 S | 88.5 | 1 |
| 3 | | 7.53 | 40 | 26.0 | 12.0 | 17.1 | 208 S | 307 | | 7.89 | 123 | 83.5 | 2 |
| 4 | 7.0 | 7.48 | 42 S | 27.2 | 10 S | 16.3 | 178 S | 281 | 12.5 | 7.35 | 114 S | 72.4 | 3 |
| 5 | | 7.20 | 38 | 23.5 | 9.0 | 17.8 | 184 S | 252 | | 7.14 | 100 | 61.7 | 4 |
| | | | | | | | | | | 7.12 | 97 | 59.7 | 5 |
| 6 | 6.5 | 8.95 | 36 S | 21 8 | 11.5 | 14.4 | 124 S | 154 | 15.0 | 7.10 | 108 S | 85.3 | 6 |
| 7 | 7.0 | 7.63 | 88 S | 58.5 | | 12.1 | 105 | 110 | | 7.80 | 143 | 83.8 | 7 |
| 8 | | 8.27 | 82 | 58.6 | | 11.9 | 116 | 118 | 12.5 | 8.95 | 91 S | 54.6 | 8 |
| 9 | | 7.78 | 48 | 32.3 | 10.0 | 11.8 | 111 S | 113 | | 8.41 | 84 | 48.5 | 9 |
| 10 | | 11.4 | 293 | 289 | | 10.5 | 105 | 95.3 | 14.0 | 8.07 | 84 S | 44.1 | 10 |
| 11 | 8.0 | 12.9 | 210 S | 234 | | 9.79 | 104 | 88.0 | | 8.75 | 85 | 42.2 | 11 |
| 12 | | 12.6 | 218 | 237 | | 9.11 | 101 | 79.5 | | 8.49 | 88 | 40.8 | 12 |
| 13 | | 12.9 | 192 | 214 | 14.0 | 8.41 | 98 S | 89.8 | 20.0 | 8.28 | 86 S | 39.2 | 13 |
| 14 | 8.0 | 11.6 | 115 S | 115 | 15 S | 7.87 | 84 S | 83.9 | | 8.08 | 73 | 32.0 | 14 |
| 15 | 7.5 | 16.5 | 478 S | 683 | | 7.72 | 111 | 74.0 | | 4.89 | 59 | 24.9 | 15 |
| 16 | | 16.7 | 295 | 428 | 11.0 | 7.47 | 102 S | 65.8 | 21.0 | 4.75 | 58 S | 23.0 | 16 |
| 17 | | 16.9 | 188 | 246 | | 7.10 | 87 | 53.4 | | 4.83 | 56 | 22.0 | 17 |
| 18 | 5.0 | 15.7 | 141 S | 191 | 12.0 | 6.77 | 72 S | 42.1 | | 4.80 | 55 | 21.4 | 18 |
| 19 | | 12.8 | 106 | 115 | | 6.59 | 75 | 42.7 | | 4.38 | 54 | 20.3 | 19 |
| 20 | 5.5 | 10.7 | 90 S | 83.2 | 12.5 | 9.19 | 143 S | 114 | 20.5 | 4.33 | 51 S | 19.1 | 20 |
| 21 | | 8.57 | 84 | 59.5 | | 9.54 | 103 | 84.5 | | 4.18 | 52 | 18.8 | 21 |
| 22 | 5.5 | 8.67 | 75 S | 58.2 | | 9.04 | 81 | 63.3 | | 4.04 | 52 | 18.2 | 22 |
| 23 | | 8.38 | 68 | 48.5 | | 8.88 | 135 S | 113 | 21.5 | 3.94 | 53 S | 18.0 | 23 |
| 24 | | 7.80 | 64 | 43.1 | | 9.34 | 125 | 101 | | 3.81 | 51 | 16.5 | 24 |
| 25 | | 7.41 | 80 | 38.4 | 14.0 | 8.78 | 120 S | 91.0 | | 3.71 | 52 | 16.7 | 25 |
| 26 | | 7.07 | 87 | 34.8 | | 8.88 | 127 | 85.2 | | 3.83 | 55 | 17.3 | 26 |
| 27 | | 6.85 | 81 | 30.2 | 10.5 | 8.40 | 91 S | 66.0 | 22.5 | 3.69 | 57 S | 17.7 | 27 |
| 28 | | 6.72 | 67 | 27.3 | | 7.81 | 80 | 40.5 | | 4.88 | 147 | 61.7 | 28 |
| 29 | | 6.83 | 84 | 32.3 | | 7.38 | 82 | 52.4 | 19.5 | 5.88 | 171 S | 88.4 | 29 |
| 30 | | 7.57 | 209 | 137 | 12.0 | 9.78 | 286 S | 252 | | 5.88 | 88 | 45.7 | 30 |
| 31 | | | | | | 8.42 | 194 | 158 | | | | | 31 |
| TOTAL | | 296.15 | | 3 850.1 | | 320.89 | | 3 983.8 | | 165.25 | | 1 283.8 | TOTAL |
| MEAN | | 9.87 | | 122 | | 10.4 | | 128 | | 5.51 | | 42.8 | MEAN |

ONTARIO

BIG CREEK NEAR WALSINGHAM - STATION NO. 02EC007

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5.59 | 85 | 41.1 | 21.5 | 12.9 | 287 S | 320 | 19.5 | 5.80 E | 51 S | 25.6 | 1 |
| 2 | | 5.53 | 107 | 51.1 | | 15.4 | 240 | 319 | | 5.60 E | 56 | 27.1 | 2 |
| 3 | | 4.98 | 86 | 41.3 | 21.0 | 16.3 | 182 S | 270 | | 5.40 E | 62 S | 24.3 | 3 |
| 4 | 22.5 | 4.68 | 101 S | 40.8 | | 17.3 | 208 | 308 | 20.0 | 5.20 E | 50 | 22.5 | 4 |
| 5 | | 4.84 | 106 | 44.3 | 21.0 | 16.2 | 127 S | 197 | | 5.10 E | 53 | 22.9 | 5 |
| 6 | 19.0 | 4.85 | 78 S | 29.5 | | 12.3 | 71 | 75.5 | 22.5 | 4.98 E | 55 S | 23.5 | 6 |
| 7 | | 4.28 | 82 | 22.8 | | 10.7 | 137 | 127 | | 4.85 E | 51 | 21.4 | 7 |
| 8 | 19.0 | 4.09 | 85 S | 18.4 | | 13.0 | 304 | 341 | 18.5 | 4.75 E | 44 S | 18.1 | 8 |
| 9 | | 3.89 | 54 | 18.8 | 21.0 | 11.1 | 174 S | 187 | | 4.85 E | 42 | 18.9 | 9 |
| 10 | | 3.89 | 57 | 18.0 | | 8.88 | 78 | 59.2 | | 4.80 E | 40 | 18.9 | 10 |
| 11 | | 3.88 | 53 | 16.9 | 17.5 | 11.1 | 332 S | 318 | | 4.90 E | 40 | 18.8 | 11 |
| 12 | | 3.82 | 46 | 15.7 | | 22.1 | 457 | 873 | 18.5 | 4.45 E | 39 S | 18.0 | 12 |
| 13 | | 3.26 | 39 | 11.0 | | 22.0 | 108 | 207 | | 4.40 E | 38 | 13.7 | 13 |
| 14 | 22.0 | 3.08 | 38 S | 10.0 | | 15.2 | 105 | 138 | 18.5 | 4.30 E | 31 S | 11.5 | 14 |
| 15 | | 2.88 | 30 | 8.88 | 19.5 | 14.3 | 115 S | 142 | | 4.70 E | 29 | 11.8 | 15 |
| 16 | | 2.34 | 22 | 4.48 | | 11 0 | 112 | 108 | | 5.80 E | 30 | 14.3 | 16 |
| 17 | | 2.15 | 21 | 3.80 | | 8.71 | 118 | 87.3 | | 6.00 E | 30 | 15.8 | 17 |
| 18 | 24.0 | 2.02 | 27 S | 4.71 | 20.5 | 7.88 | 110 S | 73.0 | | 5.50 E | 29 | 13.8 | 18 |
| 19 | | 1.85 | 26 | 4.18 | | 7.00 | 104 | 83.8 | 17.5 | 5.30 E | 28 S | 12.8 | 19 |
| 20 | 25.0 | 2.10 E | 25 S | 4.84 | | 8.43 | 88 | 83.7 | | 5.17 E | 30 | 13.4 | 20 |
| 21 | | 2.25 E | 24 | 4.87 | 20.0 | 8.01 | 84 S | 43.6 | 16.5 | 5.20 E | 28 S | 13.0 | 21 |
| 22 | | 2.20 E | 26 | 4.84 | 20.0 | 8.88 | 71 S | 34.8 | | 4.90 E | 30 | 12.7 | 22 |
| 23 | | 2.80 E | 64 | 15.5 | | 8.88 | 82 | 30.3 | | 4.75 E | 30 | 12.3 | 23 |
| 24 | | 3.50 E | 82 | 27.8 | 20.0 | 8.88 | 57 S | 28.0 | | 4.85 E | 29 | 11.4 | 24 |
| 25 | 19.5 | 2.80 E | 29 S | 7.02 | 21.5 | 5.52 | 57 S | 27.2 | | 4.40 E | 29 | 11.0 | 25 |
| 26 | | 2.20 E | 21 | 3.88 | | 5.17 | 55 | 25.0 | 14.0 | 4.30 E | 27 S | 10.0 | 26 |
| 27 | 22.0 | 1.80 E | 20 S | 3.28 | | 5.08 | 55 | 24.0 | | 4.10 E | 28 | 9.82 | 27 |
| 28 | | 1.65 E | 19 | 2.71 | | 4.90 | 53 | 22.4 | 13.0 | 3.80 A | 28 S | 9.18 | 28 |
| 29 | | 1.70 E | 18 | 2.84 | 20.0 | 4.76 | 52 S | 21.3 | 13.0 | 3.75 A | 24 S | 7.78 | 29 |
| 30 | 20.0 | 8.13 | 318 S | 188 | | 4.82 | 51 | 20.4 | 14.5 | 3.73 | 14 S | 4.81 | 30 |
| 31 | | 10.7 | 350 | 324 | | 5.20 E | 50 | 28.8 | | | | | 31 |
| TOTAL | | 110.85 | | 973.78 | | 317.70 | | 4 518.4 | | 144.20 | | 457.80 | TOTAL |
| MEAN | | 3.58 | | 31.4 | | 10.2 | | 146 | | 4.81 | | 15.3 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.86 | 11 | 3.48 | | 4.87 | 8 | 3.42 | 3.0 | 8.28 | 33 S | 23.6 | 1 |
| 2 | | 3.78 | 12 | 3.80 | | 4.79 | 6 | 2.48 | | 8.27 | 38 | 28.7 | 2 |
| 3 | 15.0 | 3.83 | 9 S | 2.82 | 5.5 | 5.18 | 9 S | 4.03 | | 8.21 | 29 | 20.6 | 3 |
| 4 | | 3.89 | 9 | 2.79 | 2.5 | 4.82 | 7 S | 3.08 | | 7.83 | 23 | 15.2 | 4 |
| 5 | 11.0 | 3.85 | 11 S | 3.88 | | 4.78 | 6 | 3.48 | 2.0 | 7.53 | 23 S | 15.0 | 5 |
| 6 | | 4.84 | 23 | 8.02 | | 4.72 | 8 | 3.48 | 4.0 | 10.0 | 107 S | 82.4 | 6 |
| 7 | | 4.05 | 10 | 3.80 | 3.0 | 4.29 | 8 S | 3.48 | | 16.4 | 98 | 133 | 7 |
| 8 | 12.5 | 3.93 | 3 S | 1.03 | 3.0 | 4.81 | 7 S | 2.91 | | 14.2 | 45 | 55.2 | 8 |
| 9 | | 4.11 | 5 | 1.78 | 5.5 | 4.87 | 12 S | 4.84 | | 12.7 | 36 | 39.5 | 9 |
| 10 | | 3.84 | 5 | 1.70 | | 4.80 | 13 | 5.17 | 3.0 | 13.8 | 88 S | 81.1 | 10 |
| 11 | | 4.03 | 5 | 1.74 | 9.0 | 5.15 | 23 S | 10.3 | | 12.4 | 47 | 50.4 | 11 |
| 12 | 13.0 | 4.88 | 8 S | 3.14 | | 5.12 | 32 | 16.8 | 3.5 | 14.8 | 140 S | 181 | 12 |
| 13 | | 4.81 | 13 | 5.61 | | 5.84 | 14 | 8.78 | | 18.3 | 156 | 247 | 13 |
| 14 | 11.5 | 5.30 | 15 S | 6.87 | | 5.30 | 5 | 2.78 | 4.0 | 18.2 | 102 S | 180 | 14 |
| 15 | | 5.05 | 8 | 3.48 | | 5.38 | 5 | 2.32 | | 19.3 | 104 | 173 | 15 |
| 16 | | 4.84 | 5 | 2.08 | 5.5 | 5.36 | 20 S | 11 0 | | 19.6 | 83 | 141 | 16 |
| 17 | 11.0 | 4.77 | 4 S | 1.85 | | 5.85 | 24 | 13.8 | 2.5 | 18.2 | 70 S | 88.6 | 17 |
| 18 | | 4.74 | 5 | 2.05 | 4.5 | 5.48 | 18 S | 10.0 | | 13.6 | 81 | 71.7 | 18 |
| 19 | 9.5 | 4.73 | 4 S | 1.83 | | 5.35 | 15 | 8 33 | | 11.0 | 53 | 50.4 | 19 |
| 20 | | 4.48 | 2 | 0 77 | | 5 78 | 23 | 13.5 | | 9 14 | 80 | 38.8 | 20 |
| 21 | 9.5 | 4.38 | 2 S | 0.78 | 3.0 | 7.38 | 31 S | 19.8 | | 8.83 | 83 | 40.4 | 21 |
| 22 | | 4.38 | [illegible] | 1.14 | | 7.23 | 28 | 18.1 | | 13 6 | 117 | 137 | 22 |
| 23 | | 5.22 | 8 | 3.61 | 7.0 | 7.07 | 28 S | 15.8 | | 17.3 | 78 | 112 | 23 |
| 24 | 9.0 | 5.83 | 7 S | 3.36 | | 7.31 | 34 | 21.5 | | 12.0 | 84 | 88.0 | 24 |
| 25 | | 5.29 | 6 | 3.88 | 5.5 | 7.29 | 28 S | 17.6 | | 9.80 B | 83 | 44.9 | 25 |
| 26 | 5.5 | 5.11 | 14 S | 6.28 | | 6.90 | 23 | 13.7 | | 8.80 B | 61 | 38.8 | 26 |
| 27 | | 5.08 | 15 | 6.68 | | 6.85 | 18 | 11.0 | | 8.10 B | 48 | 33.6 | 27 |
| 28 | 10.0 | 4.86 | 14 S | 6.02 | | 7.01 | 17 | 10.3 | | 7.80 B | 48 | 29.8 | 28 |
| 29 | | 4.83 | 8 | 3.76 | 5.0 | 6.41 | 40 S | 28.1 | | 8.80 B | 48 | 36.6 | 29 |
| 30 | | 4.83 | 10 | 4.17 | | 6.77 | 48 | 35.4 | | 8.80 B | 63 | 24.1 | 30 |
| 31 | | 4.73 | 7 | 3.88 | | | | | | 8.10 B | 38 | 20.8 | 31 |
| TOTAL | | 140.86 | | 104.78 | | 182.28 | | 333.11 | | 383.87 | | 2 286.3 | TOTAL |
| MEAN | | 4.64 | | 3.38 | | 6.08 | | 10.7 | | 11.7 | | 73.8 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 58 | |
| MAXIMUM DAILY | 741 | ON FEB 03 |
| MINIMUM DAILY | 3 | ON OCT 20 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 83.9 | |
| MAXIMUM DAILY | 1 250 | ON FEB 07 |
| MINIMUM DAILY | 0.78 | ON OCT 21 |

TOTAL SUSPENDED SEDIMENT LOAD 23 323.03 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 42 41 05 N
LONG 80 32 15 W
DRAINAGE AREA 591 $km^2$
REGULATED FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

BIG CREEK NEAR WALSINGHAM - STATION NO. 02EC007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT | | WATER TEMP. | CONCENTRATION OF SAMPLE(S) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ($m^3/s$) | | (°C) | (mg/L) | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| FEB 03 | 12:30 | 19.6 | H | 2.0 | 753 K | 13 | 18 | 36 | 52 | 69 | 82 | 93 | 98 | 100 | | | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02EC026

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 14.0 | 471 | 570 | | 7.88 | 167 | 104 | | 9.10 | 58 | 45.6 | 1 |
| 2 | | 11.6 | 310 | 311 | | 11.9 | 705 | 725 | | 9.10 | 56 | 42.5 | 2 |
| 3 | | 10.1 | 217 | 189 | 0.1 | 32.6 | 4 200 S | 11 900 | | 8.85 | 48 | 38.7 | 3 |
| 4 | | 8.88 | 187 | 135 | | 34.7 | 2 670 | 8 000 | | 9.38 | 49 | 39.6 | 4 |
| 5 | | 7.78 | 144 | 88.9 | | 22.2 | 709 | 1 360 | | 0.90 | 59 | 80.5 | 5 |
| 6 | 0.5 | 7.33 | 126 S | 79.6 | | 15.4 | 259 | 345 | | 10.1 | 42 | 38.7 | 6 |
| 7 | | 7.22 | 110 | 68.6 | | 12.1 | 175 | 183 | | 10.6 | 55 | 50.4 | 7 |
| 8 | | 7.18 | 92 | 58.6 | | 9.35 | 113 | 91.3 | | 11.6 | 59 | 58.4 | 8 |
| 9 | | 6.80 | 88 | 50.5 | | 8.08 | 81 | 56.5 | | 11.4 | 73 | 71.9 | 9 |
| 10 | | 6.97 | 104 | 58.8 | | 6.56 | 69 | 39.2 | 0.1 | 10.6 | 38 S | 34.6 | 10 |
| 11 | 0.5 | 18.9 | 1 010 S | 1 650 | | 8.20 E | 130 | 89.8 | | 10.3 | 48 | 42.7 | 11 |
| 12 | | 25.2 | 788 | 1 730 | | 8.85 E | 87 | 34.4 | | 9.32 | 51 | 41.1 | 12 |
| 13 | | 16.5 | 303 | 484 | | 8.90 E | 36 | 16.4 | | 8.34 | 42 | 30.3 | 13 |
| 14 | | 11.0 E | 185 | 176 | 0.1 | 8.80 E | 28 S | 14.5 | | 7.88 | 34 | 22.5 | 14 |
| 15 | | 8.80 E | 148 | 108 | | 8.85 E | 33 | 17.0 | | 7.24 | 30 | 18.8 | 15 |
| 16 | | 7.30 E | 125 | 84.2 | | 8.10 E | 43 | 32.7 | | 6.88 | 38 | 22.5 | 16 |
| 17 | | 7.20 E | 135 | 77.8 | | 8.80 E | 63 | 35.9 | | 6.48 | 35 | 19.5 | 17 |
| 18 | | 6.80 E | 129 | 75.8 | | 8.80 E | 41 | 31.2 | | 6.33 | 33 | 18.0 | 18 |
| 19 | | 6.80 E | 136 | 77.6 | | 9.30 E | 38 | 26.8 | | 8.28 | 104 | 74.1 | 19 |
| 20 | | 6.40 E | 118 | 64.1 | | 9.20 E | 47 | 37.4 | | 14.7 | 518 | 658 | 20 |
| 21 | | 6.20 E | 113 | 60.5 | | 9.10 E | 71 | 55.8 | | 17.0 | 454 | 667 | 21 |
| 22 | | 6.00 E | 107 | 55.5 | | 9.20 E | 80 | 63.6 | | 13.3 | 181 | 174 | 22 |
| 23 | | 5.80 E | 110 | 56.1 | | 14.0 E | 335 | 405 | | 12.3 | 181 | 193 | 23 |
| 24 | | 5.60 E | 105 | 52.8 | | 23.0 | 775 | 1 800 | 0.1 | 10.3 | 44 S | 39.2 | 24 |
| 25 | | 5.70 E | 101 | 49.7 | 0.1 | 19.8 | 253 S | 433 | | 8.88 | 21 | 16.1 | 25 |
| 26 | | 5.85 E | 106 | 52.7 | | 14.1 | 107 | 130 | | 8.57 | 23 | 17.0 | 26 |
| 27 | | 5.80 E | 121 | 58.5 | | 11.0 | 85 | 80.8 | | 8.43 | 31 | 22.8 | 27 |
| 28 | | 5.80 E | 118 | 57.8 | | 9.66 | 71 | 59.3 | | 8.08 | 57 | 44.9 | 28 |
| 29 | | 5.80 E | 103 | 49.8 | | | | | | 12.4 | 144 | 154 | 29 |
| 30 | | 5.75 E | 149 | 74.0 | | | | | | 14.9 | 278 | 358 | 30 |
| 31 | | 5.00 E | 188 | 97.6 | | | | | 2.0 | 15.9 | 261 S | 359 | 31 |
| TOTAL | | 288.45 | | 5 841.2 | | 341.38 | | 25 841.5 | | 318.41 | | 3 493.2 | TOTAL |
| MEAN | | 9.95 | | 221 | | 12.2 | | 926 | | 10.3 | | 113 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 11.8 | 148 | 149 | | 20.8 | 1 200 | 2 180 | | 8.83 | 183 | 155 | 1 |
| 2 | | 10.8 | 126 | 117 | 8.0 | 35.9 | 885 S | 2 890 | | 7.88 | 92 | 61.0 | 2 |
| 3 | | 10.4 | 133 | 120 | 4.5 | 43.6 | 1 880 S | 7 380 | | 8.82 | 78 | 44.8 | 3 |
| 4 | 6.0 | 10.8 | 173 S | 161 | | 34.0 | 1 350 | 3 970 | | 8.78 | 125 | 72.8 | 4 |
| 5 | | 10.4 | 185 | 148 | 5.0 | 24.1 | 880 S | 1 180 | | 8.81 | 104 | 59.4 | 5 |
| 6 | | 9.45 | 162 | 118 | | 17.1 | 247 | 365 | | 7.02 | 158 | 84.8 | 6 |
| 7 | | 9.84 | 201 | 171 | | 13.5 | 130 | 152 | 8.0 | 7.78 | 181 S | 122 | 7 |
| 8 | | 11.8 | 283 | 289 | | 14.4 | 241 | 300 | 10.0 | 8.84 | 183 S | 88.3 | 8 |
| 9 | | 12.1 | 258 | 270 | | 14.3 | 183 | 189 | | 8.87 | 170 | 89.2 | 9 |
| 10 | 8.0 | 28.8 | 1 770 S | 4 580 | | 12.5 | 90 | 98.0 | | 8.58 | 172 | 81.7 | 10 |
| 11 | 4.0 | 38.1 | 2 890 S | 9 840 | 14.0 | 10.4 | 88 S | 59.3 | | 5.12 | 189 | 74.8 | 11 |
| 12 | | 28.3 | 810 | 1 980 | | 8.81 | 85 | 48.9 | | 4.87 | 178 | 74.8 | 12 |
| 13 | | 18.0 | 323 | 530 | | 7.78 | 80 | 38.9 | | 4.80 | 204 | 81.1 | 13 |
| 14 | | 13.4 | 588 | 949 | | 7.08 | 47 | 28.7 | | 4.38 | 208 | 78.3 | 14 |
| 15 | | 68.8 | 3 870 | 15 800 | | 6.78 | 34 | 19.8 | 21.0 | 4.23 | 200 S | 73.1 | 15 |
| 16 | 0.1 | 48.5 | 2 480 S | 10 400 | | 8.37 | 33 | 18.2 | | 4.06 | 184 | 64.5 | 16 |
| 17 | | 31.3 | 838 | 2 280 | 8.0 | 8.89 | 22 S | 11.4 | | 3.88 | 181 | 61.8 | 17 |
| 18 | | 22.0 | 847 | 1 640 | | 8.83 | 28 | 14.1 | | 3.83 | 177 | 58.8 | 18 |
| 19 | | 17.8 | 442 | 880 | | 8.36 | 183 | 83.9 | | 3.71 | 178 | 57.1 | 19 |
| 20 | | 14.8 | 391 | 500 | | 12.7 | 790 | 887 | | 3.83 | 187 | 62.4 | 20 |
| 21 | 8.0 | 13.8 | 327 S | 383 | | 13.9 | 488 | 851 | 24.0 | 3.48 | 183 S | 49.2 | 21 |
| 22 | | 10.8 | 248 | 231 | | 11.8 | 234 | 241 | | 3.33 | 159 | 45.7 | 22 |
| 23 | | 9.84 | 188 | 183 | | 11.1 | 178 | 172 | | 3.34 | 157 | 45.3 | 23 |
| 24 | | 8.85 | 207 | 155 | | 11.3 | 248 | 242 | | 3.28 | 151 | 43.8 | 24 |
| 25 | | 7.88 | 135 | 89.3 | | 12.2 | 417 | 446 | | 3.15 | 132 | 35.9 | 25 |
| 26 | | 7.08 | 137 | 83.8 | | 10.3 | 238 | 212 | | 3.08 | 111 | 29.3 | 26 |
| 27 | | 6.82 | 174 | 98.6 | 3.0 | 8.87 | 188 S | 134 | | 3.10 | 188 | 41.8 | 27 |
| 28 | | 8.38 | 410 | 228 | | 7.83 | 97 | 83.1 | | 5.02 | 380 | 152 | 28 |
| 29 | 3.0 | 7.83 | 1 270 S | 828 | | 8.03 | 280 | 194 | | 6.72 | 239 | 128 | 29 |
| 30 | | 10.7 | 1 130 | 1 040 | | 12.7 | 820 | 880 | 28.0 | 8.18 | 148 S | 78.1 | 30 |
| 31 | | | | | | 12.8 | 438 | 478 | | | | | 31 |
| TOTAL | | 502.74 | | 82 895.7 | | 428.30 | | 23 343.0 | | 183.28 | | 2 203.5 | TOTAL |
| MEAN | | 16.8 | | 1 760 | | 13.8 | | 753 | | 6.11 | | 73.4 | MEAN |

BIG OTTER CREEK NEAR CALTON - STATION NO. 02EC038

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5.83 | 206 | 104 | 21.0 | 43.0 | 805 S | 2 980 | | 4.85 | 282 | 118 | 1 |
| 2 | | 5.83 | 376 | 190 | | 42.3 | 883 | 3 150 | 18.0 | 4.69 | 242 S | 98.0 | 2 |
| 3 | | 4.27 | 140 | 51.6 | 24.0 | 27.9 | 571 S | 1 380 | | 4.63 | 233 | 91.2 | 3 |
| 4 | | 3.98 | 73 | 25.1 | | 16.7 | 302 | 436 | | 4.23 | 178 | 64.3 | 4 |
| 5 | | 4.31 | 108 | 40.2 | | 16.3 | 940 | 1 320 | | 4.17 | 137 | 49.4 | 5 |
| 6 | | 3.85 | 70 | 23.3 | | 19.1 | 903 | 1 490 | | 4.21 | 121 | 44.0 | 6 |
| 7 | | 3.69 | 68 | 21.7 | | 14.0 | 407 | 492 | | 4.08 | 118 | 40.7 | 7 |
| 8 | | 3.81 | 64 | 20.0 | | 9.37 | 590 | 478 | 23.0 | 3.64 | 81 S | 28.6 | 8 |
| 9 | | 3.46 | 53 | 15.8 | 26.0 | 10.5 | 1 470 S | 1 330 | | 3.81 | 84 | 28.2 | 9 |
| 10 | | 3.32 | 53 | 15.2 | | 13.4 | 1 760 | 2 030 | | 3.98 | 90 | 37.8 | 10 |
| 11 | | 3.27 | 58 | 16.7 | | 41.4 | 3 810 | 13 600 | | 3.51 | 88 | 26.7 | 11 |
| 12 | | 3.20 | 36 | 23.8 | 24.0 | 88.4 | 5 130 S | 30 800 | | 3.45 | 81 | 24.1 | 12 |
| 13 | | 2.92 | 82 | 20.7 | | 27.2 | 1 650 | 4 980 | | 3.45 | 82 | 24.4 | 13 |
| 14 | 27.0 | 2.87 | 88 S | 15.9 | | 21.8 | 616 | 1 160 | | 3.42 | 82 | 24.2 | 14 |
| 15 | 28.0 | 2.51 | 70 S | 15.2 | | 13.5 | 311 | 383 | | 3.40 | 90 | 26.4 | 15 |
| 16 | | 2.32 | 78 | 15.0 | | 9.55 | 238 | 196 | 24.0 | 4.09 | 423 S | 149 | 16 |
| 17 | | 3.08 | 88 | 15.5 | | 7.53 | 195 | 127 | | 10.5 | 1 180 | 1 040 | 17 |
| 18 | | 2.21 | 109 | 20.8 | | 8.43 | 178 | 88.4 | | 7.08 | 410 | 251 | 18 |
| 19 | 31.0 | 1.86 | 78 S | 12.7 | | 5.81 | 185 | 82.8 | | 5.58 | 107 | 51.4 | 19 |
| 20 | | 1.90 | 80 | 14.8 | | 5.30 | 187 | 78.5 | | 4.80 | 80 | 24.9 | 20 |
| 21 | | 1.84 | 83 | 14.8 | | 4.83 | 134 | 57.1 | | 4.85 | 109 | 43.8 | 21 |
| 22 | | 1.87 | 85 | 13.7 | | 4.98 | 223 | 96.0 | | 4.58 | 88 | 34.8 | 22 |
| 23 | | 1.81 | 83 | 13.7 | | 4.88 | 216 | 92.4 | 14.0 | 4.36 | 87 S | 21.4 | 23 |
| 24 | | 2.04 | 109 | 19.2 | 22.0 | 4.85 | 171 S | 88.7 | | 4.28 | 47 | 17.3 | 24 |
| 25 | | 3.27 | 138 | 38.6 | | 4.42 | 216 | 83.5 | | 4.18 | 48 | 18.8 | 25 |
| 26 | | 3.00 | 83 | 18.1 | | 4.32 | 208 | 78.0 | | 4.17 | 45 | 18.2 | 26 |
| 27 | | 1.70 | 87 | 12.8 | | 4.30 | 206 | 76.5 | | 4.13 | 45 | 18.1 | 27 |
| 28 | | 1.46 | 88 | 11.2 | | 4.22 | 204 | 74.4 | 21.0 | 4.08 | 46 S | 18.3 | 28 |
| 29 | 32.0 | 4.87 | 1 310 S | 551 | 25.0 | 4.14 | 202 S | 72.3 | 18.0 | 4.07 | 35 S | 12.3 | 29 |
| 30 | | 14.3 | 1 880 | 2 340 | | 4.43 | 299 | 114 | | 4.00 | 24 | 8.29 | 30 |
| 31 | | 37.0 | 925 | 2 980 | | 5.27 | 424 | 193 | | | | | 31 |
| TOTAL | | 138.45 | | 6 867.0 | | 481.10 | | 97 885.8 | | 133.22 | | 2 431.49 | TOTAL |
| MEAN | | 4.47 | | 218 | | 15.5 | | 2 180 | | 4.44 | | 81.0 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.98 | 18 | 6.18 | | 4.32 | 46 | 17.9 | | 15.4 | 374 | 498 | 1 |
| 2 | | 3.98 | 23 | 7.83 | | 4.28 | 85 | 34.1 | | 11.6 | 147 | 147 | 2 |
| 3 | | 3.92 | 32 | 10.8 | | 4.54 | 107 | 42.0 | | 9.91 | 101 | 85.5 | 3 |
| 4 | | 3.88 | 65 | 21.8 | | 4.41 | 103 | 39.2 | | 9.15 | 78 | 80.1 | 4 |
| 5 | 25.0 | 4.49 | 947 S | 367 | | 4.15 | 91 | 32.8 | 2.0 | 9.63 | 146 S | 121 | 5 |
| 6 | | 4.86 | 884 | 287 | | 3.97 | 85 | 28.2 | | 23.3 | 1 280 | 2 580 | 6 |
| 7 | | 4.35 | 148 | 55.8 | | 3.82 | 78 | 25.7 | | 45.9 | 1 070 | 4 340 | 7 |
| 8 | | 4.30 | 113 | 41.6 | 5.0 | 3.88 | 86 S | 30.7 | | 40.3 | 874 | 3 000 | 8 |
| 9 | | 4.34 | 88 | 37.1 | 5.0 | 3.82 | 46 S | 15.0 | | 28.0 | 434 | 1 050 | 9 |
| 10 | | 4.19 | 87 | 31.5 | | 3.86 | 45 | 14.2 | 0.1 | 19.7 | 389 S | 829 | 10 |
| 11 | | 4.17 | 109 | 38.3 | | 4.25 | 102 | 37.5 | | 15.1 | 344 | 449 | 11 |
| 12 | | 4.51 | 289 | 117 | | 5.55 | 291 | 140 | 0.1 | 35.5 | 1 710 S | 5 280 | 12 |
| 13 | 20.0 | 5.07 | 552 S | 242 | | 5.36 | 158 | 73.2 | | 55.0 | 1 770 | 8 580 | 13 |
| 14 | | 8.09 | 778 | 409 | | 5.20 | 111 | 49.8 | | 48.9 | 587 | 2 400 | 14 |
| 15 | | 8.15 | 313 | 186 | | 5.05 | 198 | 86.4 | | 38.1 | 301 | 939 | 15 |
| 16 | | 5.77 | 103 | 51.3 | 14.0 | 5.80 | 848 S | 385 | | 25.0 S | 223 | 482 | 16 |
| 17 | | 8.46 | 66 | 25.9 | | 10.3 | 763 | 678 | | 17.0 S | 180 | 264 | 17 |
| 18 | | 5.17 | 52 | 23.2 | | 10.2 | 326 | 287 | | 13.5 S | 127 | 137 | 18 |
| 19 | | 4.98 | 43 | 18.5 | | 8.88 | 170 | 127 | | 9.50 S | 101 | 82.9 | 19 |
| 20 | | 4.89 | 34 | 14.4 | | 8.45 | 143 | 104 | | 7.80 S | 276 | 181 | 20 |
| 21 | | 4.75 | 29 | 11.9 | 10.0 | 13.2 | 485 S | 553 | | 7.00 S | 118 | 71.4 | 21 |
| 22 | | 4.70 | 34 | 13.8 | | 13.8 | 255 | 301 | | 14.0 S | 598 | 646 | 22 |
| 23 | 15.0 | 8.32 | 99 S | 84.1 | | 11.7 | 182 | 184 | | 16.0 S | 317 | 438 | 23 |
| 24 | 14.0 | 7.00 | 111 S | 67.1 | | 13.0 | 473 | 531 | | 13.0 S | 170 | 191 | 24 |
| 25 | | 6.46 | 99 | 55.4 | | 13.1 | 199 | 208 | | 10.7 S | 145 | 134 | 25 |
| 26 | | 6.10 | 82 | 48.5 | | 10.6 | 146 | 131 | | 9.00 S | 137 | 107 | 26 |
| 27 | | 5.52 | 79 | 38.4 | | 8.84 | 114 | 85.1 | | 7.40 S | 121 | 77.4 | 27 |
| 28 | | 5.28 | 88 | 30.8 | | 8.04 | 208 | 183 | | 8.40 S | 110 | 80.8 | 28 |
| 29 | | 4.98 | 83 | 27.2 | 2.0 | 17.8 | 2 300 S | 3 540 | | 8.00 S | 105 | 84.4 | 29 |
| 30 | | 4.75 | 87 | 33.4 | | 20.1 | 1 680 | 2 920 | | 8.80 S | 103 | 83.5 | 30 |
| 31 | | 4.47 | 51 | 19.7 | | | | | | 8.80 S | 86 | 48.1 | 31 |
| TOTAL | | 154.87 | | 2 353.29 | | 238.98 | | 10 844.7 | | 576.39 | | 32 348.1 | TOTAL |
| MEAN | | 5.00 | | 76.2 | | 8.00 | | 361 | | 18.7 | | 1 040 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 238 904.39 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 732 | |
| MAXIMUM DAILY | 5 130 ON AUG 12 | |
| MINIMUM DAILY | 15 ON OCT 01 | |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 848 | |
| MAXIMUM DAILY | 30 800 | ON AUG 12 |
| MINIMUM DAILY | 6.18 | ON OCT 01 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 42 30 N
LONG 80 50 20 W
DRAINAGE AREA 978 km²
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02EC026

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JAN 11 | 14:30 | 18.8 M | 0.5 | 1 050 K | 14 | 20 | 28 | 38 | 43 | 50 | 65 | 79 | 88 | 94 | | BNW |
| FEB 03 | 10:30 | 32.6 M | 0.1 | 3 610 K | 2 | 2 | 2 | 3 | 6 | 12 | 56 | 83 | 88 | 100 | | BNW |
| APR 29 | 10:00 | 7.93M | 3.0 | 1 780 K | 9 | 11 | 23 | 32 | 47 | 88 | 87 | 95 | 99 | 100 | | BNW |
| MAY 02 | 18:30 | 38.8 M | 8.0 | 1 320 K | 8 | 13 | 26 | 41 | 56 | 80 | 95 | 98 | 100 | | | BNW |
| MAY 03 | 11:15 | 47.2 | 5.0 | 1 280 R | 11 | 16 | 26 | 37 | 48 | 64 | 81 | 93 | 98 | 100 | | BNW |
| JUL 29 | 10:35 | 4.87M | 22.0 | 1 450 K | 18 | 26 | 37 | 55 | 69 | 88 | 95 | 99 | 100 | | | BNW |
| AUG 01 | 10:30 | 43.0 M | 21.0 | 847 K | 32 | 38 | 63 | 83 | 97 | 98 | 99 | 100 | | | | BNW |
| DEC 12 | 17:00 | 35.8 M | 0.1 | 2 380 K | 3 | 5 | 9 | 16 | 27 | 42 | 70 | 88 | 97 | 100 | | BNW |

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ONTARIO

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02EA035

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.213 | 13 | 0.24 | | 0.017 E | E | 0.01 | | 0.144 | 8 | 0.10 | 1 |
| 2 | | 0.188 | 11 | 0.18 | | 0.333 E | 31 | 0.88 | | 0.135 E | 9 | 0.10 | 2 |
| 3 | | 0.132 | 9 | 0.10 | 0.1 | 1.85 E | 38 S | 5.42 | 1.5 | 0.148 E | 17 S | 0.22 | 3 |
| 4 | | 0.102 | 10 | 0.08 | | 0.567 E | 22 | 1.08 | | 0.288 E | 49 | 1.13 | 4 |
| 5 | 0.1 | 0.089 | 7 S | 0.06 | | 0.315 E | 18 | 0.48 | | 0.268 | 43 | 1.00 | 5 |
| 6 | | 0.072 | 5 | 0.03 | | 0.188 E | 15 | 0.23 | | 0.401 | 84 S | 1.87 | 6 |
| 7 | | 0.083 | 6 | 0.02 | | 0.120 E | 14 | 0.18 | | 0.771 | 84 S | 3.88 | 7 |
| 8 | | 0.047 | 4 | 0.02 | | 0.078 E | 13 | 0.08 | | 1.00 | 81 S | 5.27 | 8 |
| 9 | | 0.038 | 3 | 0.01 | | 0.052 E | 12 | 0.05 | 3.5 | 1.34 | 48 S | 5.33 | 9 |
| 10 | | 0.300 | 18 | 0.47 | | 0.040 E | 10 | 0.03 | | 0.749 | 10 | 0.65 | 10 |
| 11 | 0.1 | 0.806 | 73 S | 5.71 | | 0.037 E | 10 | 0.02 | 3.0 | 0.415 | 8 S | 0.22 | 11 |
| 12 | 0.1 | 0.305 E | 45 S | 1.13 | | 0.033 E | 10 | 0.02 | | 0.304 | 7 | 0.18 | 12 |
| 13 | | 0.178 E | 31 | 0.47 | | 0.017 E | 10 | 0.01 | | 0.223 | 6 | 0.10 | 13 |
| 14 | | 0.130 E | 22 | 0.26 | | 0.018 E | 10 | 0.02 | | 0.187 | 5 | 0.09 | 14 |
| 15 | | 0.085 E | 15 | 0.15 | | 0.026 E | 13 | 0.03 | | 0.188 | 5 | 0.08 | 15 |
| 16 | | 0.070 E | 15 | 0.11 | | 0.072 E | 20 | 0.12 | | 0.173 | 5 | 0.07 | 16 |
| 17 | | 0.050 E | 15 | 0.07 | | 0.141 E | 38 | 0.48 | | 0.171 | 4 | 0.06 | 17 |
| 18 | | 0.035 E | 15 | 0.05 | 0.1 | 0.295 E | 42 S | 1.07 | | 0.178 | 4 | 0.08 | 18 |
| 19 | | 0.026 E | 14 | 0.03 | | 0.333 | 27 | 0.78 | 3.0 | 0.806 | 145 S | 7.59 | 19 |
| 20 | | 0.021 E | 15 | 0.03 | | 0.950 | 120 | 8.85 | | 0.722 | 134 | 6.38 | 20 |
| 21 | | 0.020 E | 15 | 0.03 | 0.1 | 1.08 | 94 S | 8.77 | 0.1 | 0.275 E | 28 S | 0.67 | 21 |
| 22 | | 0.018 E | 15 | 0.02 | | 0.830 | 37 | 1.89 | | 0.170 E | 15 | 0.24 | 22 |
| 23 | | 0.022 E | 14 | 0.03 | | 1.35 | 101 | 11.8 | | 0.108 E | 13 | 0.11 | 23 |
| 24 | | 0.017 E | 13 | 0.02 | | 0.410 E | 25 | 0.89 | | 0.080 E | 9 | 0.06 | 24 |
| 25 | 0.1 | 0.015 E | 13 S | 0.02 | | 0.190 E | 19 | 0.31 | | 0.090 E | 9 | 0.07 | 25 |
| 26 | | 0.014 E | 11 | 0.01 | | 0.133 | 14 | 0.18 | | 0.111 E | 15 | 0.14 | 26 |
| 27 | | 0.014 E | 12 | 0.01 | | 0.108 | 11 | 0.10 | | 0.135 E | 12 | 0.14 | 27 |
| 28 | | 0.013 E | 12 | 0.01 | | 0.122 | 8 | 0.08 | | 0.233 E | 40 | 0.81 | 28 |
| 29 | | 0.013 E | 12 | 0.01 | | | | | | 0.395 E | 53 | 1.81 | 29 |
| 30 | | 0.013 E | 13 | 0.01 | | | | | | 0.280 E | 15 | 0.38 | 30 |
| 31 | | 0.015 E | 12 | 0.02 | | | | | | 0.281 | 20 | 0.49 | 31 |
| TOTAL | | 3.209 | | 9.38 | | 8.187 | | 44.82 | | 10.555 | | 41.27 | TOTAL |
| MEAN | | 0.103 | | 0.30 | | 0.327 | | 1.59 | | 0.340 | | 1.33 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.313 | 33 | 0.82 | | 0.771 | 82 | 5.46 | | 0.237 | 41 | 0.84 | 1 |
| 2 | | 0.308 | 18 | 0.43 | 9.0 | 3.28 | 894 S | 189 | | 0.188 | 42 | 0.69 | 2 |
| 3 | | 0.328 | 20 | 0.57 | | 2.02 | 115 S | 20.1 | | 0.147 | 38 | 0.48 | 3 |
| 4 | 4.5 | 0.498 | 37 S | 1.80 | | 1.14 | 44 S | 4.33 | | 0.127 | 33 | 0.36 | 4 |
| 5 | | 0.385 | 8 | 0.27 | | 0.838 | 84 | 4.38 | | 0.110 | 30 S | 0.28 | 5 |
| 6 | 4.5 | 0.328 | 8 S | 0.17 | | 0.474 | 13 | 0.53 | | 0.181 | 27 | 0.42 | 6 |
| 7 | | 0.867 | 86 | 3.38 | | 0.364 | 14 | 0.44 | | 0.225 | 34 | 0.67 | 7 |
| 8 | 4.7 | 0.803 | 13 S | 0.86 | | 0.578 | 35 | 1.74 | 15.0 | 0.150 | 32 S | 0.41 | 8 |
| 9 | | 0.387 | 30 | 0.95 | | 0.439 | 14 S | 0.53 | | 0.111 | 10 | 0.10 | 9 |
| 10 | 4.9 | 2.83 | 387 S | 85.3 | | 0.288 | 11 | 0.28 | | 0.081 | 4 | 0.05 | 10 |
| 11 | | 0.820 | 59 S | 4.68 | | 0.217 | 10 | 0.18 | | 0.083 | 7 | 0.04 | 11 |
| 12 | | 0.478 | 28 S | 1.16 | | 0.170 | 15 S | 0.22 | | 0.081 | 7 | 0.03 | 12 |
| 13 | | 0.348 | 21 | 0.63 | | 0.138 | 10 | 0.13 | | 0.038 | 7 | 0.02 | 13 |
| 14 | | 0.987 | 137 | 11.7 | | 0.131 | 15 | 0.17 | | 0.027 | 4 S | 0.01 | 14 |
| 15 | | 1.58 | 87 S | 11.9 | | 0.282 | 39 | 0.95 | | 0.021 | 4 | 0.01 | 15 |
| 16 | | 0.585 | 49 | 2.38 | | 0.208 | 10 | 0.18 | | 0.014 | 4 | 0 | 16 |
| 17 | | 0.382 | 44 | 1.45 | | 0.148 | 9 | 0.12 | | 0.008 | 3 S | 0 | 17 |
| 18 | | 0.301 | 41 | 1.07 | | 0.115 | 8 | 0.08 | | 0.005 | 2 | 0 | 18 |
| 19 | | 0.245 | 39 | 0.83 | | 0.683 | 149 | 11 S | | 0.003 | 2 | 0 | 19 |
| 20 | | 0.201 | 33 S | 0.57 | | 2.19 | 198 S | 32 0 | | 0.002 | 1 S | 0 | 20 |
| 21 | | 0.180 | 30 | 0.28 | | 0.891 | 17 S | 1.01 | | 0 | 0 | 0 | 21 |
| 22 | | 0.132 | 10 | 0.11 | | 0.477 | 8 | 0.37 | | 0 | 0 | 0 | 22 |
| 23 | | 0.111 | 8 S | 0.08 | | 0.500 | 30 S | 1.30 | | 0 | 0 | 0 | 23 |
| 24 | | 0.088 | 8 | 0.04 | | 0.347 | 14 | 0.42 | | 0 | 0 | 0 | 24 |
| 25 | | 0.084 | 4 | 0.03 | | 0.288 | 12 | 0.28 | | 0 | 0 | 0 | 25 |
| 26 | | 0.088 | 8 | 0.03 | | 0.237 | 11 | 0.23 | | 0 | 0 | 0 | 26 |
| 27 | | 0.081 | 10 | 0.05 | | 0.192 | 11 | 0.18 | | 0 | 0 | 0 | 27 |
| 28 | | 0.081 | 48 | 0.33 | | 0.147 | 8 | 0.10 | | 0 | 0 | 0 | 28 |
| 29 | | 0.186 | 105 | 1.48 | | 0.301 | 39 | 0.68 | | 0 | 0 | 0 | 29 |
| 30 | | 0.713 | 122 S | 7.82 | | 0.308 | 52 | 1.38 | | 0 | 0 S | 0 | 30 |
| 31 | | | | | | 0.248 | 44 S | 0.95 | | | | | 31 |
| TOTAL | | 14.128 | | 130.15 | | 15.405 | | 289.21 | | 1.788 | | 4.33 | TOTAL |
| MEAN | | 0.471 | | 4.01 | | 0.594 | | 8.36 | | 0.089 | | 0.14 | MEAN |

ONTARIO

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02EA030

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.001 | 2 | 0 | 1 |
| 2 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.001 | 1 | 0 | 2 |
| 3 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 3 |
| 4 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 4 |
| 5 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 5 |
| 6 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 6 |
| 7 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 7 |
| 8 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 8 |
| 9 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 9 |
| 10 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 10 |
| 11 | | 0 | 0 | 0 | | 0.001 | 8 | 0 | | 0 | 0 | 0 | 11 |
| 12 | | 0 | 0 E | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 12 |
| 13 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 13 |
| 14 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 14 |
| 15 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 15 |
| 16 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.001 | 15 | 0 | 16 |
| 17 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.001 | 4 | 0 | 17 |
| 18 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.004 | 4 | 0 | 18 |
| 19 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.010 | 13 | 0.01 | 19 |
| 20 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.040 | 22 | 0.08 | 20 |
| 21 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.383 | 67 | 1.07 | 21 |
| 22 | | 0 | 0 | 0 | | 0.001 | 4 | 0 | | 0.133 | 32 | 0.35 | 22 |
| 23 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.085 | 18 | 0.13 | 23 |
| 24 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.057 | 15 | 0.07 | 24 |
| 25 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.034 | 11 | 0.03 | 25 |
| 26 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.027 | 11 | 0.03 | 26 |
| 27 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.033 | 11 | 0.02 | 27 |
| 28 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.018 | 11 | 0.02 | 28 |
| 29 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0.017 | 10 | 0.01 | 29 |
| 30 | | 0 | 0 | 0 | | 0.001 | 5 | 0 | | 0.020 | 9 | 0.02 | 30 |
| 31 | | 0 | 0 | 0 | | 0.001 | 2 | 0 | | | | | 31 |
| TOTAL | | 0 | | 0 | | 0.004 | | 0 | | 0.735 | | 1.74 | TOTAL |
| MEAN | | 0 | | 0 | | 0.000 | | 0 | | 0.024 | | 0.06 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.030 | 8 | 0.01 | | 0.031 | 3 | 0.01 | | 0.313 | 8 | 0.15 | 1 |
| 2 | | 0.030 | 8 | 0.01 | | 0.030 | 2 | 0.01 | | 0.187 | 7 | 0.10 | 2 |
| 3 | | 0.032 | 9 | 0.02 | | 0.034 | 2 | 0.01 | | 0.138 | 8 | 0.07 | 3 |
| 4 | | 0.028 | 10 | 0.02 | | 0.040 | 4 | 0.01 | | 0.128 | 8 | 0.07 | 4 |
| 5 | | 0.043 | 17 | 0.06 | | 0.038 | 4 | 0.01 | 2.0 | 0.107 | 8 S | 0.08 | 5 |
| 6 | | 0.052 | 14 | 0.06 | | 0.038 | 2 | 0.01 | | 0.095 B | 9 | 0.07 | 6 |
| 7 | | 0.050 | 13 | 0.06 | | 0.032 | 2 | 0.01 | | 0.090 B | 9 | 0.07 | 7 |
| 8 | | 0.057 | 17 | 0.10 | | 0.027 | 1 | 0 | | 0.370 B | 14 | 0.45 | 8 |
| 9 | | 0.066 | 18 | 0.09 | | 0.024 | 1 | 0 | 0.1 | 0.293 B | 3 S | 0.05 | 9 |
| 10 | | 0.052 | 10 | 0.04 | 7.0 | 0.022 A | 1 S | 0 | | 0.224 B | 1 | 0.02 | 10 |
| 11 | | 0.037 | 10 | 0.03 | | 0.038 E | 1 | 0 | | 0.184 B | 4 | 0.06 | 11 |
| 12 | | 0.093 | 18 | 0.15 | | 0.036 E | 2 | 0.01 | | 1.47 B | 105 | 13.3 | 12 |
| 13 | | 0.218 | 39 | 0.55 | | 0.027 E | 2 | 0 | | 2.71 B | 63 | 14.8 | 13 |
| 14 | | 0.300 | 25 | 0.85 | | 0.028 E | 3 | 0.01 | | 1.06 B | 13 | 1.19 | 14 |
| 15 | | 0.174 | 18 | 0.27 | | 0.027 E | 3 | 0.01 | | 0.998 B | 4 | 0.20 | 15 |
| 16 | | 0.115 | 15 | 0.15 | 2.0 | 0.043 E | 13 S | 0.05 | | 0.395 B | 3 | 0.10 | 16 |
| 17 | | 0.078 | 14 | 0.10 | | 0.042 E | 24 | 0.09 | | 0.230 B | 4 | 0.06 | 17 |
| 18 | | 0.053 | 14 | 0.06 | | 0.032 E | 17 | 0.05 | | 0.180 B | 4 | 0.06 | 18 |
| 19 | | 0.038 | 13 | 0.04 | | 0.033 E | 14 | 0.04 | | 0.130 B | 4 | 0.04 | 19 |
| 20 | | 0.031 | 11 | 0.03 | | 0.100 E | 13 | 0.10 | | 0.100 B | 4 | 0.03 | 20 |
| 21 | | 0.028 | 9 | 0.02 | 2.0 | 0.500 E | 24 S | 1.04 | | 0.074 B | 4 | 0.03 | 21 |
| 22 | | 0.024 | 10 | 0.02 | 4.0 | 0.283 E | 40 S | 0.88 | | 0.064 B | 4 | 0.02 | 22 |
| 23 | | 0.270 | 30 S | 0.70 | | 0.212 | 22 | 0.40 | | 0.054 B | 3 | 0.01 | 23 |
| 24 | | 0.242 | 13 | 0.32 | | 0.223 | 21 | 0.40 | | 0.048 B | 3 | 0.01 | 24 |
| 25 | | 0.176 | 10 | 0.15 | | 0.188 | 18 | 0.28 | | 0.044 B | 4 | 0.02 | 25 |
| 26 | | 0.138 | 10 S | 0.12 | | 0.142 | 11 | 0.13 | | 0.040 B | 4 | 0.01 | 26 |
| 27 | | 0.101 | 8 | 0.07 | | 0.115 | 8 | 0.08 | | 0.036 B | 4 | 0.01 | 27 |
| 28 | | 0.082 | 7 | 0.05 | | 0.187 | 10 | 0.16 | | 0.034 B | 4 | 0.01 | 28 |
| 29 | | 0.055 | 5 S | 0.02 | | 0.561 | 22 S | 1.07 | | 0.032 B | 4 | 0.01 | 29 |
| 30 | | 0.043 | 4 | 0.01 | | 0.378 | 10 | 0.34 | | 0.030 B | 4 | 0.01 | 30 |
| 31 | | 0.037 | 4 | 0.01 | | | | | | 0.029 B | 3 | 0.01 | 31 |
| TOTAL | | 2.782 | | 3.05 | | 3.408 | | 5.18 | | 5.336 | | 31.13 | TOTAL |
| MEAN | | 0.090 | | 0.13 | | 0.113 | | 0.17 | | 0.301 | | 1.00 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | | |
|---|---|---|---|
| MEAN | 22 | | |
| MAXIMUM DAILY | 504 | ON MAY 02 | |
| MINIMUM DAILY | 0 | ON JUN 21 | |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 1.43 | |
| MAXIMUM DAILY | 105 | ON MAY 02 |
| MINIMUM DAILY | 0 | ON JUN 15 |

TOTAL SUSPENDED SEDIMENT LOAD 520.80 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 40 12 N
LONG 80 35 48 W
DRAINAGE AREA 17.9 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

CANAGAGIGUE CREEK NEAR FLORABALE - STATION NO. 02GA038

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE, C - CHEMICALLY DISPERSED, F - SONIC SIFTER, H - HYDROMETER, M - MECHANICALLY DISPERSED, N - IN NATIVE WATER, P - PIPETTE, S - SIEVE, V - VISUAL ACCUMULATION TUBE, W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| FEB 21 | 15:00 | 1.08N | 0.1 | 240 K | 34 | 35 | 83 | 94 | 97 | 98 | 99 | 100 | | | | SSW |
| MAY 02 | 20:35 | 3.29N | 9.0 | 1 030 K | 37 | 60 | 76 | 96 | 99 | 99 | 99 | 99 | 100 | | | SWH |

N - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 10.7 B | 17 | 15.7 | | 5.03 | 8 | 4.79 | | 7.89 | 15 | 10.2 | 1 |
| 2 | | 10.2 B | 14 | 12.3 | 0.1 | 17.1 | 143 S | 211 | 2.0 | 7.86 | 15 S | 10.3 | 2 |
| 3 | 0.1 | 9.89 | 11 S | 9.21 | | 60.0 B | 380 | 1 970 | | 8.24 | 15 | 10.7 | 3 |
| 4 | | 7.47 | 13 | 7.74 | 0.1 | 30.2 | 67 S | 175 | 3.0 | 10.6 | 17 S | 15.6 | 4 |
| 5 | 0.1 | 7.31 B | 20 S | 12.6 | | 13.1 | 11 | 12.5 | | 12.2 | 18 | 19.0 | 5 |
| 6 | 0.1 | 7.85 B | 20 S | 13.6 | | 10.5 B | 8 | 7.28 | | 12.5 | 15 | 15.2 | 6 |
| 7 | 0.1 | 8.88 | 15 S | 11.3 | 0.1 | 8.33 B | 8 S | 4.32 | | 16.0 | 28 | 40.1 | 7 |
| 8 | | 8.66 | 12 | 8.90 | | 8.69 B | 8 | 2.85 | | 16.8 | 35 | 55.9 | 8 |
| 9 | | 7.72 | 8 | 8.00 | 0.1 | 8.00 B | 8 S | 2.89 | 4.0 | 20.8 | 55 S | 98.7 | 9 |
| 10 | | 9.58 | 46 | 38.1 | | 5.48 B | 8 | 2.04 | 3.0 | 19.2 | 37 S | 67.4 | 10 |
| 11 | 0.1 | 32.3 | 285 S | 740 | 0.1 | 5.07 B | 10 S | 4.38 | 0.5 | 14.6 | 15 S | 18.9 | 11 |
| 12 | 0.1 | 21.4 | 55 S | 102 | | 5.13 B | 15 | 8.65 | | 11.3 | 13 | 12.7 | 12 |
| 13 | | 10.6 | 34 | 31.1 | | 5.71 B | 20 | 9.67 | | 8.66 | 11 | 9.37 | 13 |
| 14 | 0.1 | 8.95 B | 35 S | 27.6 | 0.1 | 8.41 B | 28 S | 18.1 | 3.0 | 8.37 | 8 S | 5.48 | 14 |
| 15 | | 7.22 B | 12 | 7.48 | | 8.23 | 115 | 81.8 | | 9.57 | 7 | 5.79 | 15 |
| 16 | | 5.96 B | 8 | 2.57 | 0.3 | 9.12 | 234 S | 184 | 3.0 | 9.12 | 5 S | 3.94 | 16 |
| 17 | 0.1 | 5.07 B | 5 S | 2.19 | | 8.89 | 49 | 37.8 | | 8.85 | 4 | 2.99 | 17 |
| 18 | | 4.82 B | 5 | 2.08 | 0.1 | 8.18 | 19 S | 15.0 | 4.5 | 8.49 | 37 S | 30.3 | 18 |
| 19 | 0.1 | 4.71 B | 4 S | 1.83 | | 8.31 | 30 | 24.1 | | 36.3 | 343 | 1 080 | 19 |
| 20 | | 4.66 B | 3 | 1.21 | | 8.70 | 48 | 38.8 | | 34.3 | 112 | 332 | 20 |
| 21 | 0.1 | 4.68 B | 4 S | 1.82 | 0.1 | 11.0 | 68 S | 82.7 | 0.1 | 19.1 | 44 S | 72.8 | 21 |
| 22 | | 4.75 B | 10 | 4.10 | | 12.6 | 87 | 94.7 | | 11.9 | 22 | 22.6 | 22 |
| 23 | | 8.24 | 13 | 9.28 | 1.5 | 22.5 | 268 S | 486 | 0.1 | 11.9 | 12 S | 12.3 | 23 |
| 24 | 0.1 | 7.76 | 7 S | 4.71 | 1.5 | 13.3 E | 84 S | 96 S | | 10.4 | 10 | 8.99 | 24 |
| 25 | | 7.80 | 4 | 2.70 | 0.1 | 9.50 E | 22 S | 18.1 | 0.1 | 9.71 | 6 S | 5.03 | 25 |
| 26 | 0.1 | 8.50 | 2 S | 1.12 | | 8.80 E | 17 | 12.9 | | 9.49 | 5 | 4.10 | 26 |
| 27 | | 8.39 B | 3 | 1.40 | | 8.30 E | 16 | 10.6 | | 10.8 | 7 | 6.53 | 27 |
| 28 | 0.1 | 8.00 B | 8 S | 2.16 | 0.1 | 7.95 E | 14 S | 9.62 | 0.1 | 13.9 | 30 S | 36.0 | 28 |
| 29 | | 8.04 B | 8 | 2.81 | | | | | 0.1 | 17.8 | 45 S | 69.2 | 29 |
| 30 | | 8.85 B | 8 | 4.04 | | | | | 0.1 | 15.3 | 25 S | 33.0 | 30 |
| 31 | 0.1 | 7.54 | 8 S | 5.21 | | | | | | 15.7 | 32 | 43.4 | 31 |
| TOTAL | | 282.06 | | 1 092.45 | | 334.81 | | 3 812.87 | | 432.65 | | 2 156.32 | TOTAL |
| MEAN | | 9.45 | | 35.2 | | 12.0 | | 126 | | 14.0 | | 69.6 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 17.1 | 39 | 57.6 | | 20.6 | 82 | 92.5 | 14.0 | 11.3 | 29 S | 28.3 | 1 |
| 2 | | 16.6 | 41 | 58.5 | 11.0 | 44.6 | 313 S | 1 210 | 11.0 | 10.3 | 29 S | 23.1 | 2 |
| 3 | | 30.9 | 202 | 539 | | 59.6 | 233 | 1 180 | 10.5 | 9.02 | 16 S | 14.0 | 3 |
| 4 | 3.0 | 27.0 | 71 S | 166 | 6.5 | 35.6 | 106 S | 326 | | 8.91 | 17 | 13.1 | 4 |
| 5 | | 21.0 | 24 | 43.5 | | 25.6 E | 63 | 117 | | 8.56 | 17 | 12.8 | 5 |
| 6 | 4.0 | 16.8 | 11 S | 15.8 | 6.5 | 19.0 E | 32 S | 36.1 | 14.0 | 8.52 | 40 S | 32.8 | 6 |
| 7 | | 17.5 | 21 | 31.6 | | 14.3 | 18 | 18 S | | 10.8 | 37 | 34.6 | 7 |
| 8 | 5.0 | 18.6 | 14 S | 22.5 | | 20.9 | 88 | 177 | 12.0 | 8.56 | 16 S | 13.2 | 8 |
| 9 | | 18.0 | 7 | 8.07 | | 22.8 | 82 | 103 | | 8.30 | 21 | 15.1 | 9 |
| 10 | | 52.1 | 360 | 1 560 | | 15.2 | 21 | 29.4 | 13.0 | 7.69 | 31 S | 20.3 | 10 |
| 11 | 8.0 | 38.0 | 126 S | 381 | 9.0 | 12.6 | 14 S | 15.5 | | 7.26 | 28 | 17.6 | 11 |
| 12 | | 21.6 | 34 | 63 S | | 11.2 | 11 | 10 S | | 8.89 | 23 | 13.7 | 12 |
| 13 | 5.5 | 18.1 | 15 S | 22.3 | 11.5 | 10.3 | 10 S | 4.90 | 10.5 | 8.67 | 18 S | 10.6 | 13 |
| 14 | | 19.1 | 180 | 297 | | 8.77 | 13 | 11.0 | | 8.27 | 13 | 7.04 | 14 |
| 15 | 6.5 | 36.2 | 208 S | 686 | | 11.6 | 26 | 26.5 | 20.0 | 8.18 | 10 S | 5.34 | 15 |
| 16 | | 24.2 | 48 | 100 | 7.5 | 11.2 | 12 S | 11.5 | | 8.80 | 18 | 9.12 | 16 |
| 17 | | 17.2 | 11 | 16.3 | | 10.1 | 10 | 8.73 | 20.0 | 8.77 | 15 S | 7.48 | 17 |
| 18 | 3.0 | 14.4 | 5 S | 6.22 | 8.0 | 8.85 | 8 S | 4.84 | | 8.73 | 22 | 10.9 | 18 |
| 19 | | 13.3 | 4 | 4.80 | 9.5 | 11.1 | 80 | 48.0 | | 8.58 | 30 | 14.5 | 19 |
| 20 | 3.0 | 11.8 | 4 S | 4.08 | | 22.5 | 141 S | 274 | 18.0 | 8.48 | 38 S | 17.0 | 20 |
| 21 | | 11.0 | 2 | 1.90 | | 18.3 | 82 | 103 | | 8.34 | 33 | 15.2 | 21 |
| 22 | 3.0 | 10.4 | 1 S | 0.90 | | 15.1 | 47 | 61.3 | 19.0 | 8.19 | 31 S | 13.9 | 22 |
| 23 | | 9.70 | 1 | 0.84 | | 15.5 | 84 | 72.3 | | 8.12 | 34 | 15.0 | 23 |
| 24 | | 9.12 | 2 | 1.58 | | 13.3 | 33 | 37.9 | 19.5 | 8.05 | 37 S | 15.1 | 24 |
| 25 | 4.5 | 8.73 | 2 S | 1.61 | 12.5 | 11.5 | 24 S | 23.6 | | 4.87 | 38 | 15.5 | 25 |
| 26 | | 8.54 | 1 | 0.74 | | 11.1 | 23 | 22.1 | | 4.88 | 38 | 15.1 | 26 |
| 27 | 10.5 | 8.20 | 2 S | 1.42 | 8.5 | 10.4 | 31 S | 18.9 | 21.0 | 8.22 | 46 S | 20.7 | 27 |
| 28 | | 8.30 | 3 | 2.15 | | 8.49 | 19 | 15.6 | | 7.01 | 30 | 48.5 | 28 |
| 29 | 10.0 | 8.75 | 4 S | 3.37 | | 11.2 | 61 | 69.0 | 18.0 | 6.83 | 52 S | 26.2 | 29 |
| 30 | | 14.4 | 65 | 80.8 | 11.0 | 13.8 | 80 S | 89.6 | | 6.51 | 48 | 22.8 | 30 |
| 31 | | | | | | 11.8 | 34 | 35.0 | | | | | 31 |
| TOTAL | | 541.74 | | 4 203.06 | | 540.61 | | 4 217.87 | | 210.42 | | 529.88 | TOTAL |
| MEAN | | 18.1 | | 140 | | 17.4 | | 136 | | 7.01 | | 17.7 | MEAN |

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5.02 | 51 | 24.8 | | 6.34 | 63 | 59.6 | | 6.35 | 18 | 10.4 | 1 |
| 2 | | 5.46 | 42 | 19.8 | | 7.41 | 58 S | 37.1 | | 5.87 | 10 | 4.81 | 2 |
| 3 | | 5.18 | 33 | 14.7 | | 6.18 | 42 S | 22.4 | | 5.10 | 7 | 3.08 | 3 |
| 4 | 22.0 | 5.02 | 35 S | 15.7 | | 5.92 | 37 | 18.9 | | 4.00 | 6 | 2.12 | 4 |
| 5 | | 5.01 | 39 | 20.3 | | 5.95 | 32 S | 16.5 | | 4.66 | 4 | 1.38 | 5 |
| 6 | 16.0 | 5.76 | 33 S | 16.4 | | 5.88 | 24 | 11.6 | | 4.82 | 7 | 2.98 | 6 |
| 7 | | 5.40 | 26 | 12.1 | | 5.37 | 19 | 8.62 | | 4.83 | 6 | 2.50 | 7 |
| 8 | 17.5 | 5.17 | 21 S | 9.38 | | 5.62 | 21 S | 10.2 | | 4.75 | 6 | 2.48 | 8 |
| 9 | | 5.07 | 20 | 8.76 | | 5.39 | 38 | 21.0 | | 4.67 | 6 | 2.42 | 9 |
| 10 | | 5.07 | 19 | 8.32 | | 5.28 | 24 | 10.9 | | 4.53 | 6 | 2.35 | 10 |
| 11 | 17.0 | 4.91 | 18 S | 8.06 | 10.3 | | 145 | 129 | | 4.60 | 6 | 2.38 | 11 |
| 12 | | 4.84 | 14 | 5.85 | | 7.56 | 116 | 75.8 | | 4.30 | 6 S | 2.23 | 12 |
| 13 | 20.0 | 4.71 | 9 S | 3.86 | | 5.95 | 38 | 19.5 | | 4.32 | 11 | 4.11 | 13 |
| 14 | | 4.85 | 8 | 2.41 | | 5.42 | 14 | 6.58 | | 4.23 | 11 S | 4.02 | 14 |
| 15 | 23.0 | 4.68 | 5 S | 1.98 | | 5.19 | 11 | 4.83 | | 4.24 | 9 | 3.30 | 15 |
| 16 | | 4.61 | 4 | 1.56 | | 5.31 | 10 | 4.59 | | 6.33 | 83 S | 45.4 | 16 |
| 17 | | 4.47 | 4 | 1.54 | | 5.38 | 9 | 4.18 | | 6.61 | 66 | 37.7 | 17 |
| 18 | 23.0 | 4.57 | 4 S | 1.58 | | 5.31 | 9 | 4.13 | | 6.38 | 67 | 36.4 | 18 |
| 19 | | 4.58 | 5 | 1.87 | | 5.28 | 9 | 4.08 | | 6.41 | 54 S | 29.9 | 19 |
| 20 | | 4.48 | 6 | 2.32 | | 5.23 | 9 | 4.07 | | 5.97 | 38 | 18.6 | 20 |
| 21 | | 4.84 | 7 | 2.75 | | 5.12 | 11 | 4.87 | | 5.76 | 83 | 49.6 | 21 |
| 22 | 18.0 | 4.65 | 8 S | 3.21 | | 5.06 | 141 | 98.2 | | 5.38 | 44 S | 24.3 | 22 |
| 23 | | 4.61 | 7 | 2.79 | | 5.87 | 24 | 14.2 | | 5.61 | 30 S | 15.3 | 23 |
| 24 | | 4.53 | 7 | 2.74 | | 5.21 | 16 | 9.37 | | 5.24 | 23 | 10.4 | 24 |
| 25 | 18.5 | 4.50 | 8 S | 2.33 | | 5.87 | 12 | 6.77 | | 4.94 | 19 | 8.11 | 25 |
| 26 | | 4.44 | 5 | 1.92 | | 5.23 | 11 | 4.97 | | 4.81 | 15 S | 9.23 | 26 |
| 27 | 18.5 | 4.41 | 5 S | 1.91 | | 5.03 | 6 | 2.81 | | 5.01 | 24 | 10.4 | 27 |
| 28 | | 4.37 | 5 | 1.89 | | 5.01 | 18 | 8.93 | | 4.72 | 13 S | 5.30 | 28 |
| 29 | 21.0 | 4.45 | 5 S | 1.92 | | 5.78 | 84 | 31.7 | | 4.56 | 10 | 3.94 | 29 |
| 30 | | 5.33 | 61 | 28.1 | | 7.38 | 100 | 63.6 | | 4.61 | 9 S | 3.91 | 30 |
| 31 | | 13.6 | 126 | 182 | | 7.85 | 55 | 38.0 | | | | | 31 |
| TOTAL | | 158.94 | | 392.76 | | 182.16 | | 780.69 | | 156.42 | | 354.73 | TOTAL |
| MEAN | | 5.16 | | 12.7 | | 6.20 | | 24.2 | | 5.21 | | 11.8 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4.49 | 8 | 3.49 | | 5.12 | 9 | 2.98 | | 8.16 | 44 S | 31.0 | 1 |
| 2 | | 4.26 | 8 | 2.94 | | 5.27 | 25 S | 11.6 | | 7.24 | 37 | 23.1 | 2 |
| 3 | | 4.48 | 10 S | 3.87 | | 5.66 | 88 | 28.4 | | 6.80 | 34 | 20.0 | 3 |
| 4 | | 4.88 | 10 | 4.03 | | 5.73 | 50 S | 24.6 | | 6.44 | 31 | 18.3 | 4 |
| 5 | | 5.44 | 28 S | 12.2 | | 5.80 | 52 | 25.2 | | 6.89 | 29 S | 17.3 | 5 |
| 6 | | 5.12 | 21 | 9.28 | | 5.54 | 54 | 25.8 | | 12.9 | 150 | 167 | 6 |
| 7 | | 4.82 | 13 S | 5.41 | 5.0 | 5.57 E | 63 S | 30.3 | | 9.10 B | 42 S | 33.0 | 7 |
| 8 | | 4.88 | 26 | 10 S | | 5.38 E | 64 | 29.1 | | 8.70 B | 16 | 9.26 | 3 |
| 9 | | 5.11 | 17 | 7.51 | | 5.34 E | 30 S | 13.8 | | 7.45 B | 21 S | 13.5 | 9 |
| 10 | | 4.91 | 11 | 4.87 | | 5.22 E | 18 | 8.77 | | 6.26 B | 13 | 7.02 | 10 |
| 11 | | 4.83 | 12 | 4.80 | | 7.40 E | 173 | 111 | | 5.60 B | 14 | 8.77 | 11 |
| 12 | 13.0 | 7.47 | 187 S | 108 | | 8.18 E | 86 | 78.1 | | 28.2 | 328 S | 802 | 12 |
| 13 | | 8.12 | 181 S | 181 | | 7.10 E | 80 | 39.8 | | 30.2 | 173 | 451 | 13 |
| 14 | | 10.5 | 183 S | 166 | | 8.12 E | 35 S | 18.5 | | 18.8 | 57 S | 93.1 | 14 |
| 15 | | 7.86 | 87 | 87.7 | | 8.89 | 85 | 64.9 | | 15.9 | 31 | 42.6 | 15 |
| 16 | | 6.32 | 45 | 24.6 | | 20.3 | 248 | 810 | | 13.0 | 23 S | 25.8 | 16 |
| 17 | | 5.89 | 31 S | 15.8 | | 18.5 | 111 S | 158 | | 9.78 | 15 | 12.7 | 17 |
| 18 | | 5.60 | 23 | 11.1 | | 10.1 | 47 S | 41.0 | | 6.20 B | 12 | 6.43 | 18 |
| 19 | | 5.23 | 18 S | 8.89 | | 7.78 | 24 | 18.1 | | 5.15 B | 12 S | 5.34 | 19 |
| 20 | | 5.07 | 18 | 7.88 | | 7.45 | 32 | 20.8 | | 4.60 B | 11 | 4.28 | 20 |
| 21 | | 4.93 | 16 S | 6.82 | | 9.08 | 83 S | 65.1 | 0.1 | 4.20 B | 12 S | 4.35 | 21 |
| 22 | | 4.84 | 17 | 7.11 | | 9.06 | 67 | 52.4 | | 5.50 B | 84 | 39.9 | 22 |
| 23 | | 7.71 | 143 | 85.3 | | 7.84 | 27 | 18.5 | 0.1 | 5.25 B | 44 S | 20.0 | 23 |
| 24 | | 8.96 | 89 | 63.4 | | 8.49 | 67 S | 49.1 | | 5.12 B | 38 | 16.8 | 24 |
| 25 | | 7.77 | 44 S | 29.5 | | 7.89 | 78 S | 53.8 | | 4.96 B | 38 | 16.4 | 25 |
| 26 | | 6.68 | 37 S | 21.0 | | 7.28 | 44 | 27.8 | | 4.90 B | 37 | 15.7 | 26 |
| 27 | | 6.86 | 27 | 13.9 | | 6.66 | 24 | 13.9 | | 4.80 B | 38 | 16.4 | 27 |
| 28 | | 6.67 | 19 S | 9.31 | | 7.61 | 126 S | 82.2 | | 4.72 B | 38 | 14.7 | 28 |
| 29 | | 6.47 | 15 | 7.08 | | 13.4 | 211 | 244 | | 4.85 B | 38 | 14.5 | 29 |
| 30 | | 5.32 | 11 | 4.88 | | 10.6 | 84 S | 58.6 | | 4.61 B | 38 | 14.3 | 30 |
| 31 | | 5.22 | 12 S | 5.41 | | | | | | 4.57 B | 36 | 14.2 | 31 |
| TOTAL | | 184.01 | | 873.16 | | 241.17 | | 2 004.15 | | 269.03 | | 1 975.15 | TOTAL |
| MEAN | | 5.94 | | 28.2 | | 8.04 | | 66.8 | | 8.68 | | 63.7 | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 73 | |
| MAXIMUM DAILY | 380 | ON FEB 03 |
| MINIMUM DAILY | 1 | ON APR 22 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 60.4 | |
| MAXIMUM DAILY | 1 870 | ON FEB 03 |
| MINIMUM DAILY | 0.74 | ON APR 25 |

TOTAL SUSPENDED SEDIMENT LOAD 22 083.22 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 32 34 N
LONG 79 39 35 W

DRAINAGE AREA 795 $km^2$
REGULATED FLOW

E - ICE CONDITIONS B - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; P - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JAN 11 | 08:30 | 32.3 | H | 0.1 | 317 | K | 30 | 35 | 53 | 78 | 92 | 97 | 98 | 99 | 100 | | BNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02EA035

SUSPENDED SEDIMENT FOR 1982

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.308 | 18 | 0.42 | | 0.133 B | 5 | 0.05 | | 0.224 | 4 | 0.08 | 1 |
| 2 | | 0.278 | 16 | 0.38 | | 0.784 B | 55 | 3.78 | | 0.221 | 4 | 0.08 | 2 |
| 3 | | 0.238 | 14 | 0.29 | 1.5 | 1.73 | 73 S | 10.9 | 2.5 | 0.222 | 4 S | 0.08 | 3 |
| 4 | | 0.223 B | 10 | 0.19 | | 0.420 B | 36 | 1.36 | | 0.282 | 5 | 0.11 | 4 |
| 5 | 1.0 | 0.219 | 8 S | 0.15 | | 0.370 B | 30 | 0.96 | | 0.308 | 13 | 0.34 | 5 |
| 6 | | 0.228 | 7 | 0.14 | | 0.273 B | 26 | 0.61 | | 0.448 | 17 | 0.88 | 6 |
| 7 | | 0.233 | 8 | 0.12 | | 0.202 B | 22 | 0.38 | 8.5 | 0.747 | 27 B | 1.74 | 7 |
| 8 | | 0.208 | 8 | 0.11 | | 0.188 B | 21 | 0.34 | 4.0 | 0.878 | 42 B | 3.54 | 8 |
| 9 | | 0.230 B | 8 | 0.12 | | 0.170 B | 20 | 0.29 | 4.0 | 1.23 | 54 S | 5.74 | 9 |
| 10 | 11.0 | 0.802 | 19 S | 0.88 | | 0.186 B | 19 | 0.27 | | 0.838 | 24 | 1.74 | 10 |
| 11 | 2.0 | 1.00 | 33 S | 2.86 | | 0.161 B | 18 | 0.28 | 3.0 | 0.478 | 8 S | 0.33 | 11 |
| 12 | | 0.381 B | 11 | 0.36 | | 0.158 B | 20 | 0.27 | | 0.370 B | 8 | 0.19 | 12 |
| 13 | | 0.277 B | 7 | 0.17 | | 0.155 B | 20 | 0.27 | | 0.299 | 6 | 0.16 | 13 |
| 14 | | 0.288 | 5 | 0.12 | | 0.152 B | 20 | 0.28 | | 0.288 | 6 | 0.15 | 14 |
| 15 | | 0.241 | 5 | 0.10 | | 0.213 B | 27 | 0.50 | | 0.289 | 6 | 0.15 | 15 |
| 16 | | 0.230 B | 5 | 0.10 | | 0.283 | 24 | 0.58 | | 0.274 | 8 | 0.14 | 16 |
| 17 | | 0.223 B | 8 | 0.12 | 2.0 | 0.324 | 24 S | 0.67 | | 0.270 | 5 | 0.12 | 17 |
| 18 | | 0.208 B | 8 | 0.11 | 2.0 | 0.458 | 17 S | 0.67 | | 0.279 | 15 | 0.36 | 18 |
| 19 | | 0.190 B | 8 | 0.10 | | 0.332 | 9 | 0.28 | 5.0 | 0.852 | 380 S | 28.5 | 19 |
| 20 | | 0.180 B | 7 | 0.11 | | 0.932 | 32 | 2.58 | | 0.826 | 213 | 15.2 | 20 |
| 21 | | 0.170 B | 6 | 0.08 | 2.0 | 0.887 | 28 S | 1.54 | | 0.370 | 51 | 1.83 | 21 |
| 22 | | 0.180 B | 8 | 0.08 | | 0.407 | 7 | 0.25 | | 0.309 | 21 | 0.56 | 22 |
| 23 | | 0.182 B | 8 | 0.10 | | 1.08 | 14 | 1.32 | | 0.274 | 15 | 0.36 | 23 |
| 24 | | 0.213 B | 8 | 0.11 | | 0.436 | 5 | 0.19 | | 0.259 | 15 | 0.33 | 24 |
| 25 | 0.1 | 0.192 B | 8 S | 0.10 | | 0.294 B | 4 | 0.10 | | 0.253 | 15 | 0.30 | 25 |
| 26 | | 0.185 B | 6 | 0.10 | | 0.273 B | 4 | 0.09 | | 0.234 | 13 | 0.26 | 26 |
| 27 | | 0.172 B | 5 | 0.07 | | 0.225 | 4 | 0.08 | | 0.249 | 11 | 0.24 | 27 |
| 28 | | 0.186 B | 8 | 0.09 | | 0.218 | 4 | 0.08 | | 0.384 | 24 | 0.80 | 28 |
| 29 | | 0.180 B | 5 | 0.07 | | | | | | 0.332 B | 14 | 0.40 | 29 |
| 30 | | 0.182 B | 5 | 0.07 | | | | | | 0.337 B | 13 | 0.38 | 30 |
| 31 | | 0.149 B | 5 | 0.08 | | | | | | 0.366 | 20 | 0.83 | 31 |
| TOTAL | | 7.888 | | 7.99 | | 11.215 | | 28.82 | | 13.023 | | 53.30 | TOTAL |
| MEAN | | 0.254 | | 0.26 | | 0.400 | | 1.03 | | 0.420 | | 2.04 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.383 | 17 | 0.58 | | 0.772 | 57 | 3.80 | | 0.387 | 3 | 0.10 | 1 |
| 2 | | 0.368 | 14 | 0.45 | 10.5 | 4.01 | 2 080 S | 721 | | 0.298 | 4 | 0.10 | 2 |
| 3 | | 0.433 | 15 | 0.58 | 8.0 | 2.08 | 288 S | 51.8 | | 0.254 | 4 | 0.09 | 3 |
| 4 | | 0.840 | 28 | 1.44 | 7.0 | 1.31 | 28 S | 3.17 | | 0.251 | 3 | 0.07 | 4 |
| 5 | | 0.498 | 11 | 0.44 | | 0.888 | 10 | 0.85 | | 0.258 | 5 | 0.11 | 5 |
| 6 | 5.0 | 0.388 | 7 S | 0.23 | | 0.559 | 4 | 0.18 | 14.0 | 0.438 | 34 | 1.28 | 6 |
| 7 | | 0.710 | 20 | 1.23 | | 0.478 | 7 | 0.28 | | 0.380 | 23 | 0.76 | 7 |
| 8 | | 0.693 | 14 | 0.72 | | 1.03 | 31 | 2.76 | 15.0 | 0.284 | 15 S | 0.42 | 8 |
| 9 | | 0.431 | 15 S | 0.80 | | 0.580 | 21 | 1.05 | | 0.224 | 11 | 0.21 | 9 |
| 10 | | 2.39 | 65 | 12.0 | | 0.409 | 16 | 0.84 | | 0.196 | 11 | 0.19 | 10 |
| 11 | | 0.888 | 10 | 0.75 | | 0.341 | 16 | 0.47 | 21.0 | 0.173 | 11 S | 0.15 | 11 |
| 12 | | 0.831 | 5 | 0.33 | | 0.289 | 15 | 0.37 | | 0.187 | 10 | 0.14 | 12 |
| 13 | | 0.406 | 3 | 0.11 | | 0.280 | 15 | 0.36 | | 0.149 | 9 | 0.12 | 13 |
| 14 | | 1.18 | 26 | 2.85 | 15.0 | 0.289 | 15 S | 0.37 | | 0.148 | 8 | 0.10 | 14 |
| 15 | 8.0 | 1.51 | 49 S | 6.39 | | 0.417 | 12 | 0.43 | | 0.144 | 7 | 0.09 | 15 |
| 16 | | 0.874 | 17 | 0.99 | | 0.281 | 9 | 0.22 | | 0.135 | 7 | 0.08 | 16 |
| 17 | | 0.478 | 10 | 0.41 | | 0.248 | 9 | 0.19 | | 0.127 | 7 | 0.08 | 17 |
| 18 | | 0.404 | 7 | 0.24 | | 0.227 | 10 | 0.20 | | 0.123 | 7 | 0.07 | 18 |
| 19 | | 0.348 | 6 | 0.18 | 10.0 | 1.29 | 247 S | 27.5 | | 0.117 | 8 | 0.08 | 19 |
| 20 | | 0.297 | 6 | 0.15 | 10.5 | 1.76 | 92 S | 14.0 | | 0.111 | 9 | 0.09 | 20 |
| 21 | | 0.262 | 5 | 0.11 | | 0.701 | 14 | 0.85 | | 0.107 | 8 | 0.07 | 21 |
| 22 | | 0.235 | 8 | 0.12 | | 0.188 | 10 | 0.49 | | 0.104 | 8 | 0.07 | 22 |
| 23 | | 0.244 | 5 | 0.11 | | 0.633 | 9 | 0.41 | | 0.098 | 8 | 0.07 | 23 |
| 24 | | 0.218 | 4 | 0.08 | | 0.393 | 8 | 0.20 | | 0.094 | 8 | 0.06 | 24 |
| 25 | | 0.210 | 4 | 0.07 | | 0.357 | 7 | 0.22 | 22.0 | 0.097 | 12 S | 0.10 | 25 |
| 26 | | 0.187 | 4 | 0.07 | | 0.335 | 5 | 0.14 | | 0.092 | 5 | 0.04 | 26 |
| 27 | | 0.209 | 5 | 0.09 | | 0.288 | 5 | 0.12 | | 0.095 | 5 | 0.04 | 27 |
| 28 | | 0.319 | 15 | 0.50 | | 0.247 | 3 | 0.08 | | 0.128 | 5 | 0.09 | 28 |
| 29 | 7.0 | 0.323 | 15 S | 0.42 | | 0.388 | 5 | 0.17 | | 0.093 | 5 | 0.05 | 29 |
| 30 | 10.0 | 0.814 | 101 S | 7.10 | | 0.374 | 3 | 0.10 | | 0.095 | 5 | 0.05 | 30 |
| 31 | | | | | | 0.377 | 5 | 0.15 | | | | | 31 |
| TOTAL | | 15.837 | | 39.22 | | 22.187 | | 832.55 | | 5.358 | | 4.98 | TOTAL |
| MEAN | | 0.551 | | 1.31 | | 0.716 | | 26.9 | | 0.178 | | 0.17 | MEAN |

ONTARIO

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02EA005

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.088 | 6 | 0.05 | | 0.116 | 12 | 0.12 | | 0.103 | 3 | 0.03 | 1 |
| 2 | | 0.098 | 7 | 0.06 | | 0.095 | 9 | 0.07 | | 0.093 | 3 | 0.02 | 2 |
| 3 | | 0.093 | 7 | 0.06 | 22.0 | 0.087 | 8 S | 0.06 | | 0.091 | 4 | 0.03 | 3 |
| 4 | | 0.141 | 10 | 0.12 | | 0.119 | 9 | 0.09 | | 0.090 | 4 | 0.03 | 4 |
| 5 | | 0.155 | 8 | 0.11 | | 0.087 | 8 | 0.06 | | 0.089 | 4 | 0.03 | 5 |
| 6 | | 0.109 | 8 | 0.08 | | 0.091 | 9 | 0.04 | | 0.092 | 4 | 0.03 | 6 |
| 7 | | 0.084 | 7 | 0.06 | | 0.087 | 9 | 0.04 | | 0.092 | 4 | 0.03 | 7 |
| 8 | | 0.093 | 7 | 0.06 | | 0.087 | 8 | 0.06 | | 0.088 | 5 | 0.04 | 8 |
| 9 | | 0.088 | 7 | 0.05 | | 0.091 | 7 | 0.06 | | 0.083 | 5 | 0.04 | 9 |
| 10 | | 0.087 | 6 | 0.05 | | 0.082 | 7 | 0.05 | | 0.084 | 6 | 0.05 | 10 |
| 11 | | 0.080 | 6 | 0.04 | 12.0 | 0.250 | 29 S | 0.63 | | 0.080 | 11 | 0.06 | 11 |
| 12 | | 0.079 | 5 | 0.03 | | 0.118 | 8 | 0.08 | 15.0 | 0.080 | 13 S | 0.09 | 12 |
| 13 | | 0.080 | 5 | 0.03 | | 0.088 | 7 | 0.06 | | 0.080 | 11 | 0.08 | 13 |
| 14 | | 0.079 | 5 | 0.03 | | 0.082 | 7 | 0.06 | | 0.077 | 8 | 0.06 | 14 |
| 15 | | 0.083 | 6 | 0.04 | | 0.080 | 7 | 0.05 | | 0.078 | 8 | 0.05 | 15 |
| 16 | | 0.079 | 6 | 0.04 | | 0.080 | 9 | 0.05 | | 0.128 | 12 | 0.13 | 16 |
| 17 | | 0.082 | 7 | 0.05 | | 0.085 | 8 | 0.04 | | 0.111 | 8 | 0.08 | 17 |
| 18 | | 0.084 | 7 | 0.05 | | 0.084 | 9 | 0.04 | | 0.180 | 17 | 0.26 | 18 |
| 19 | | 0.084 | 7 | 0.05 | | 0.079 | 9 | 0.03 | 15.0 | 0.122 | 10 S | 0.11 | 19 |
| 20 | | 0.082 | 7 | 0.05 | 21.0 | 0.081 | 9 S | 0.03 | | 0.083 | 9 | 0.07 | 20 |
| 21 | | 0.081 | 7 | 0.05 | | 0.078 | 8 | 0.04 | | 0.309 | 24 | 0.63 | 21 |
| 22 | | 0.080 | 6 | 0.04 | | 0.104 | 12 | 0.20 | 11.0 | 0.155 | 8 S | 0.07 | 22 |
| 23 | | 0.078 | 7 | 0.05 | 20.0 | 0.107 | 9 S | 0.05 | | 0.135 | 3 | 0.03 | 23 |
| 24 | | 0.081 | 7 | 0.05 | | 0.088 | 9 | 0.04 | | 0.110 | 3 | 0.03 | 24 |
| 25 | | 0.078 | 8 | 0.05 | | 0.082 | 8 | 0.04 | | 0.100 | 4 | 0.03 | 25 |
| 26 | 18.0 | 0.077 | 8 S | 0.05 | | 0.086 | 9 | 0.04 | | 0.086 | 3 | 0.02 | 26 |
| 27 | | 0.078 | 7 | 0.05 | 23.0 | 0.088 | 8 S | 0.04 | | 0.086 | 2 | 0.02 | 27 |
| 28 | | 0.083 | 7 | 0.05 | | 0.086 | 9 | 0.04 | | 0.093 | 2 | 0.02 | 28 |
| 29 | | 0.086 | 7 | 0.05 | | 0.091 | 4 | 0.03 | | 0.091 | 2 | 0.02 | 29 |
| 30 | | 0.088 | 8 | 0.05 | 18.0 | 0.147 | 8 S | 0.08 | | 0.090 | 2 | 0.02 | 30 |
| 31 | | 0.113 | 10 | 0.10 | | 0.135 | 3 | 0.03 | | | | | 31 |
| TOTAL | | 2.787 | | 1.85 | | 3.222 | | 2.33 | | 3.304 | | 2.47 | TOTAL |
| MEAN | | 0.090 | | 0.06 | | 0.104 | | 0.08 | | 0.110 | | 0.08 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 0.090 | 1 S | 0.01 | | 0.107 | 5 | 0.05 | | 0.226 | 15 | 0.29 | 1 |
| 2 | | 0.090 | 1 | 0.01 | | 0.111 | 8 | 0.08 | | 0.205 | 13 | 0.23 | 2 |
| 3 | | 0.093 | 2 | 0.02 | | 0.138 | 10 | 0.12 | | 0.187 | 11 | 0.18 | 3 |
| 4 | | 0.107 | 3 | 0.03 | | 0.121 | 8 | 0.08 | | 0.181 | 10 | 0.16 | 4 |
| 5 | | 0.118 | 4 | 0.04 | | 0.116 | 8 | 0.08 | | 0.178 | 10 | 0.15 | 5 |
| 6 | | 0.103 | 3 | 0.03 | | 0.110 | 10 | 0.10 | 2.0 | 0.184 B | 10 S | 0.16 | 6 |
| 7 | | 0.087 | 2 | 0.02 | | 0.112 | 11 | 0.11 | | 0.180 B | 10 | 0.16 | 7 |
| 8 | 11.0 | 0.150 | 6 S | 0.06 | | 0.103 | 15 | 0.14 | | 0.285 B | 29 | 0.71 | 8 |
| 9 | | 0.135 | 3 | 0.03 | | 0.103 | 25 | 0.22 | 0.1 | 0.382 B | 15 S | 0.51 | 9 |
| 10 | | 0.105 | 2 | 0.02 | 7.0 | 0.105 | 33 S | 0.30 | | 0.350 B | 12 | 0.38 | 10 |
| 11 | | 0.082 | 3 | 0.02 | | 0.189 | 42 | 0.69 | | 0.300 B | 12 | 0.31 | 11 |
| 12 | | 0.177 | 15 | 0.23 | | 0.173 | 28 | 0.43 | | 1.16 B | 42 | 4.21 | 12 |
| 13 | 13.5 | 0.263 | 35 S | 0.80 | | 0.133 | 26 | 0.32 | | 1.44 | 22 | 2.74 | 13 |
| 14 | | 0.281 | 20 | 0.48 | | 0.136 | 27 | 0.32 | | 0.716 | 9 | 0.58 | 14 |
| 15 | 10.0 | 0.167 | 3 S | 0.04 | | 0.132 | 27 | 0.31 | | 0.525 | 3 | 0.14 | 15 |
| 16 | | 0.140 | 2 | 0.02 | | 0.212 | 35 | 0.64 | | 0.437 | 4 | 0.15 | 16 |
| 17 | | 0.127 | 2 | 0.02 | | 0.208 | 25 | 0.45 | | 0.334 | 4 | 0.12 | 17 |
| 18 | | 0.117 | 3 | 0.03 | | 0.158 | 23 | 0.32 | | 0.268 B | 4 | 0.09 | 18 |
| 19 | | 0.108 | 2 | 0.02 | | 0.159 | 20 | 0.27 | | 0.242 B | 4 | 0.08 | 19 |
| 20 | | 0.103 | 2 | 0.02 | | 0.257 | 30 | 0.67 | | 0.228 B | 5 | 0.10 | 20 |
| 21 | | 0.100 | 2 | 0.02 | 4.0 | 0.455 | 21 S | 0.84 | | 0.215 B | 4 | 0.07 | 21 |
| 22 | 7.0 | 0.089 | 2 S | 0.02 | 4.0 | 0.255 | 1 S | 0.02 | | 0.205 B | 5 | 0.09 | 22 |
| 23 | | 0.475 | 25 | 1.03 | | 0.210 | 3 | 0.05 | | 0.195 B | 4 | 0.07 | 23 |
| 24 | | 0.314 | 8 | 0.22 | | 0.231 | 4 | 0.08 | | 0.188 B | 3 | 0.05 | 24 |
| 25 | | 0.187 | 5 | 0.10 | | 0.207 | 3 | 0.04 | | 0.178 B | 3 | 0.05 | 25 |
| 26 | 4.0 | 0.184 | 8 S | 0.08 | | 0.174 | 2 | 0.03 | | 0.172 B | 4 | 0.06 | 26 |
| 27 | | 0.146 | 8 | 0.08 | | 0.187 | 3 | 0.04 | | 0.165 B | 3 | 0.04 | 27 |
| 28 | | 0.125 | 5 | 0.05 | 4.0 | 0.258 | 10 S | 0.22 | | 0.160 B | 3 | 0.04 | 28 |
| 29 | | 0.116 | 5 | 0.05 | 3.0 | 0.598 | 35 S | 1.86 | | 0.155 B | 3 | 0.04 | 29 |
| 30 | | 0.105 | 5 | 0.05 | | 0.267 | 15 | 0.47 | | 0.151 B | 3 | 0.04 | 30 |
| 31 | | 0.105 | 5 | 0.05 | | | | | | 0.148 B | 3 | 0.04 | 31 |
| TOTAL | | 4.805 | | 3.77 | | 5.735 | | 9.33 | | 9.836 | | 11.68 | TOTAL |
| MEAN | | 0.148 | | 0.12 | | 0.191 | | 0.31 | | 0.330 | | 0.39 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 1 008.54 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN 110
MAXIMUM DAILY 2 080 ON MAY 02
MINIMUM DAILY 1 ON OCT 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN 2.76
MAXIMUM DAILY 731 ON MAY 02
MINIMUM DAILY 0.01 ON OCT 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 38 04 N
LONG 80 34 39 W
DRAINAGE AREA 27.7 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02EA035

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT | WATER TEMP. | CONCENTRATION OF SAMPLE(S) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ($m^3/s$) | (°C) | (mg/L) | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAR 19 | 19:35 | 0.852H | 5.0 | 710 K | 9 | 22 | 47 | 85 | 97 | 99 | 100 | | | | | BNW |
| MAY 02 | 08:45 | 4.01H | 9.0 | 587 K | 24 | 38 | 65 | 91 | 97 | 98 | 99 | 100 | | | | BNW |
| MAY 02 | 15:50 | 4.01H | 13.0 | 8 870 K | 6 | 16 | 28 | 49 | 83 | 99 | 100 | | | | | BNW |
| MAY 02 | 19:10 | 4.01H | 12.0 | 3 450 K | 17 | 27 | 45 | 73 | 84 | 99 | 100 | | | | | BNW |
| MAY 19 | 18:25 | 1.28H | 10.0 | 828 K | 6 | 9 | 20 | 37 | 72 | 98 | 100 | | | | | |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.510 B | | | | 0.750 B | 24 | 1.56 | | 0.428 | 19 | 0.70 | 1 |
| 2 | | 0.480 B | | | | 4.76 | 38 | 15.6 | | 0.428 | 17 | 0.63 | 2 |
| 3 | | 0.428 B | | | | 9.29 | 112 | 89.8 | 2.0 | 0.428 | 18 S | 0.67 | 3 |
| 4 | | 0.380 B | | | | 6.17 | 85 | 36.0 | | 0.428 | 18 | 0.59 | 4 |
| 5 | | 0.429 B | | | | 2.15 B | 42 | 7.80 | | 0.585 E | 17 | 0.86 | 5 |
| 6 | | 0.410 B | | | | 0.870 B | 31 | 2.33 | | 0.743 E | 23 | 1.48 | 6 |
| 7 | | 0.950 B | | | | 0.890 B | 38 | 1.49 | 3.0 | 0.800 | 29 S | 2.25 | 7 |
| 8 | | 0.800 B | | | | 0.810 B | 32 | 0.97 | | 1.03 | 31 | 2.76 | 8 |
| 9 | | 0.400 B | | | | 0.380 B | 22 | 0.72 | 2.0 | 1.30 | 19 S | 2.13 | 9 |
| 10 | | 4.80 B | | | | 0.380 B | 22 | 0.88 | 2.0 | 1.30 | 11 S | 1.24 | 10 |
| 11 | | 4.78 | | | | 0.380 B | 31 | 0.85 | | 1.03 | 9 | 0.80 | 11 |
| 12 | | 1.35 B | | | | 0.340 B | 20 | 0.59 | | 0.585 E | 8 | 0.80 | 12 |
| 13 | | 0.770 B | | | | 0.340 B | 20 | 0.59 | | 0.705 E | 5 | 0.37 | 13 |
| 14 | | 0.580 B | | | | 0.390 B | 21 | 0.71 | 2.0 | 0.845 | 3 S | 0.14 | 14 |
| 15 | | 0.490 B | | | | 0.640 B | 19 | 0.88 | | 0.800 | 2 | 0.09 | 15 |
| 16 | | 0.440 B | | | | 0.780 B | 31 | 1.42 | 3.0 | 0.800 | 1 S | 0.04 | 16 |
| 17 | | 0.380 B | | | | 0.630 B | 28 | 2.01 | | 0.845 | 5 | 0.24 | 17 |
| 18 | | 0.380 B | | | | 0.700 B | 40 | 2.42 | 3.0 | 0.845 | 55 S | 2.84 | 18 |
| 19 | | 0.375 B | | | | 0.870 B | 22 | 1.08 | 2.0 | 9.55 | 2 300 S | 1 900 | 19 |
| 20 | | 0.360 B | | | | 0.900 B | 15 | 0.85 | | 5.35 E | 909 | 420 | 20 |
| 21 | | 0.380 B | | | | 0.470 B | 17 | 0.68 | 1.0 | 1.15 | 41 S | 4.07 | 21 |
| 22 | | 0.380 B | | | | 0.480 B | 21 | 0.87 | | 1.11 | 22 | 2.11 | 22 |
| 23 | | 0.800 B | | | | 3.37 | 42 | 12.2 | 0.1 | 1.06 | 30 S | 2.75 | 23 |
| 24 | | 1.01 B | | | | 1.15 | 38 | 3.86 | | 1.03 | 42 | 3.74 | 24 |
| 25 | | 0.840 B | | | | 0.820 B | 28 | 1.84 | 3.0 | 1.03 | 47 S | 4.18 | 25 |
| 26 | | 0.450 B | | | | 0.620 B | 20 | 1.07 | | 1.27 E | 49 | 5.38 | 26 |
| 27 | | 0.420 B | | | | 0.480 B | 17 | 0.71 | | 1.52 E | 55 | 7.22 | 27 |
| 28 | | 0.380 B | | | | 0.440 B | 19 | 0.72 | 3.0 | 1.75 | 76 S | 11.6 | 28 |
| 29 | | 0.420 B | | | | | | | | 1.41 | 71 | 8.65 | 29 |
| 30 | | 0.435 B | | | | | | | 3.0 | 1.44 | 37 S | 4.60 | 30 |
| 31 | | 0.980 B | | | | | | | | 0.750 | 24 | 1.84 | 31 |
| TOTAL | | 25.004 | | | | 38.100 | | 182.04 | | 41.275 | | 2 384.18 | TOTAL |
| MEAN | | 0.808 | | | | 1.36 | | 6.86 | | 1.33 | | 77.2 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.15 E | 21 | 2.10 | | 2.82 E | 142 | 32.1 | | 0.800 | 93 | 4.02 | 1 |
| 2 | | 1.83 E | 32 | 4.23 | 10.0 | 3.71 | 112 S | 35.9 | | 0.488 | 89 | 2.48 | 2 |
| 3 | | 1.80 E | 71 | 11.7 | | 2.89 E | 88 | 15.0 | | 0.300 | 34 | 0.88 | 3 |
| 4 | 3.0 | 2.28 | 38 S | 7.88 | 13.0 | 2.28 | 28 S | 5.71 | | 0.427 E | 24 | 0.89 | 4 |
| 5 | 3.0 | 1.30 | 16 S | 1.80 | | 1.47 E | 20 | 2.84 | | 0.853 E | 27 | 1.29 | 5 |
| 6 | | 2.71 | 23 | 5.33 | 10.0 | 0.852 | 16 S | 0.82 | | 0.880 | 57 | 3.35 | 6 |
| 7 | 3.0 | 2.83 | 11 S | 2.80 | | 0.868 E | 15 | 0.87 | | 0.506 | 61 | 3.60 | 7 |
| 8 | 3.0 | 1.03 | 10 S | 0.88 | | 0.874 E | 14 | 0.82 | | 0.300 | 84 | 1.68 | 8 |
| 9 | | 1.15 E | 34 | 3.38 | 10.0 | 0.680 | 22 S | 1.28 | | 0.300 | 41 | 1.08 | 9 |
| 10 | | 1.28 E | 76 | 8.40 | | 0.800 | 33 | 1.43 | | 0.208 | 31 | 0.55 | 10 |
| 11 | 3.0 | 1.41 | 48 S | 5.85 | 12.0 | 0.355 | 25 S | 0.80 | | 0.182 E | 24 | 0.40 | 11 |
| 12 | | 1.15 | 20 | 1.99 | | 0.355 | 15 | 0.48 | | 0.178 E | 23 | 0.35 | 12 |
| 13 | 3.0 | 0.790 | 16 S | 1.09 | 11.0 | 0.300 | 11 S | 0.28 | | 0.155 | 28 | 0.37 | 13 |
| 14 | | 0.790 | 39 | 2.66 | | 0.318 E | 11 | 0.30 | | 0.159 | 25 | 0.34 | 14 |
| 15 | 2.0 | 3.75 | 102 S | 33.0 | | 0.337 E | 12 | 0.35 | | 0.138 | 25 | 0.29 | 15 |
| 16 | | 2.73 E | 116 | 27.4 | 11.0 | 0.355 | 17 S | 0.52 | | 0.126 | 25 | 0.27 | 16 |
| 17 | | 1.70 E | 45 | 6.76 | | 0.355 | 30 | 0.81 | | 0.116 | 25 | 0.25 | 17 |
| 18 | 1.0 | 0.660 | 8 S | 0.47 | 12.0 | 0.248 | 17 S | 0.36 | | 0.113 E | 25 | 0.24 | 18 |
| 19 | 5.0 | 0.845 | 18 S | 0.85 | | 0.265 | 24 | 0.51 | | 0.110 E | 25 | 0.24 | 19 |
| 20 | 5.0 | 0.484 | 11 S | 0.44 | 12.0 | 2.89 | 44 S | 11.4 | | 0.107 | 24 | 0.22 | 20 |
| 21 | | 0.845 | 12 | 0.87 | | 2.83 E | 85 | 12.0 | | 0.100 | 24 | 0.21 | 21 |
| 22 | 5.0 | 0.627 | 16 S | 0.73 | | 2.07 E | 40 | 7.15 | | 0.100 | 24 | 0.21 | 22 |
| 23 | | 0.470 E | 15 | 0.61 | | 1.61 E | 21 | 2.92 | | 0.095 | 24 | 0.20 | 23 |
| 24 | | 0.412 E | 16 | 0.57 | 12.0 | 1.15 | 15 S | 1.88 | | 0.088 | 24 S | 0.20 | 24 |
| 25 | 5.0 | 0.355 | 12 S | 0.37 | | 0.880 | 28 | 1.33 | | 0.098 E | 24 | 0.20 | 25 |
| 26 | | 0.355 | 10 | 0.31 | 11.0 | 0.800 | 38 S | 2.18 | | 0.088 E | 24 | 0.21 | 26 |
| 27 | | 0.328 E | 10 | 0.28 | 10.0 | 0.880 | 23 S | 1.17 | | 0.100 | 26 | 0.22 | 27 |
| 28 | 8.0 | 0.300 | 8 S | 0.21 | | 0.777 E | 21 | 1.41 | | 0.133 | 30 | 0.34 | 28 |
| 29 | 8.0 | 0.428 | 8 S | 0.30 | | 0.882 E | 22 | 1.83 | | 0.110 | 29 | 0.28 | 29 |
| 30 | | 1.62 E | 44 | 5.72 | 11.0 | 1.15 | 30 S | 2.88 | | 0.100 | 25 | 0.22 | 30 |
| 31 | | | | | 15.0 | 0.835 | 97 S | 3.88 | | | | | 31 |
| TOTAL | | 38.219 | | 138.31 | | 38.074 | | 150.32 | | 8.885 | | 34.84 | TOTAL |
| MEAN | | 1.31 | | 4.81 | | 1.13 | | 4.86 | | 0.223 | | 0.83 | MEAN |

PAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.100 E | | | | 0.124 E | | | | 0.078 | | | 1 |
| 2 | | 0.100 E | | | | 0.133 | | | | 0.076 | | | 2 |
| 3 | | 0.100 E | | | | 0.123 | | | | 0.078 E | | | 3 |
| 4 | | 0.100 | | | | 0.128 | | | | 0.078 E | | | 4 |
| 5 | | 0.100 | | | | 0.119 | | | | 0.078 E | | | 5 |
| 6 | | 0.100 | | | | 0.111 E | | | | 0.078 | | | 6 |
| 7 | | 0.100 | | | | 0.105 E | | | | 0.078 | 15 S | 0.10 | 7 |
| 8 | | 0.100 | | | | 0.100 | | | | 0.078 | | | 8 |
| 9 | | 0.100 E | | | | 0.100 | | | | 0.078 | | | 9 |
| 10 | | 0.100 E | | | | 0.100 | | | | 0.078 E | | | 10 |
| 11 | | 0.100 | | | | 0.100 | | | | 0.078 E | | | 11 |
| 12 | | 0.088 | | | | 0.100 | | | | 0.078 | | | 12 |
| 13 | | 0.100 | | | | 0.092 E | | | | 0.078 | | | 13 |
| 14 | | 0.100 | | | | 0.084 E | | | | 0.078 | | | 14 |
| 15 | | 0.100 | | | | 0.078 | | | | 0.078 | | | 15 |
| 16 | | 0.100 E | | | | 0.081 | | | | 0.088 | | | 16 |
| 17 | | 0.100 E | | | | 0.078 | | | | 0.082 E | | | 17 |
| 18 | | 0.100 | | | | 0.078 | | | | 0.088 E | | | 18 |
| 19 | | 0.100 | | | | 0.078 | | | | 0.100 | | | 19 |
| 20 | | 0.100 | | | | 0.085 E | | | | 0.088 | | | 20 |
| 21 | | 0.133 | | | | 0.114 E | | | | 0.100 | | | 21 |
| 22 | | 0.083 | | | | 0.133 | | | | 0.088 | | | 22 |
| 23 | | 0.088 E | | | | 0.113 | | | | 0.100 | | | 23 |
| 24 | | 0.084 E | | | | 0.078 | | | | 0.100 E | | | 24 |
| 25 | | 0.100 | | | | 0.078 | | | | 0.100 E | | | 25 |
| 26 | | 0.100 | | | | 0.078 | | | | 0.100 | | | 26 |
| 27 | 25.0 | 0.083 | 11 S | 0.09 | | 0.078 E | | | | 0.100 | | | 27 |
| 28 | | 0.100 | | | | 0.078 E | | | | 0.100 | | | 28 |
| 29 | | 0.100 | | | | 0.078 | | | | 0.100 E | | | 29 |
| 30 | | 0.108 E | | | | 0.110 | | | | 0.100 E | | | 30 |
| 31 | | 0.116 E | | | | 0.078 | | | | | | | 31 |
| TOTAL | | 3.111 | | | | 2.886 | | | | 2.832 | | | TOTAL |
| MEAN | | 0.100 | | | | 0.095 | | | | 0.094 | | | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.100 E | | | | 0.173 | | | | 0.509 | | | 1 |
| 2 | | 0.100 E | | | | 0.181 | | | | 0.483 E | | | 2 |
| 3 | | 0.100 | | | | 0.428 | | | | 0.416 E | | | 3 |
| 4 | | 0.100 | | | | 0.408 | | | | 0.370 | | | 4 |
| 5 | | 0.100 | | | | 0.385 E | | | | 0.398 | | | 5 |
| 6 | | 0.118 | | | | 0.324 E | | | | 0.389 | | | 6 |
| 7 | | 0.133 | | | | 0.284 | | | | 2.84 | | | 7 |
| 8 | | 0.124 E | | | | 0.258 | | | | 2.43 | | | 8 |
| 9 | | 0.116 E | | | | 0.217 | | | | 1.61 E | | | 9 |
| 10 | | 0.108 E | | | | 0.208 | | | | 0.790 | | | 10 |
| 11 | | 0.100 | | | | 0.428 | | | | 3.82 | | | 11 |
| 12 | | 0.205 | | | | 1.05 | | | | 2.93 E | | | 12 |
| 13 | | 0.245 | | | | 0.926 E | | | | 2.25 E | | | 13 |
| 14 | | 0.245 | | | | 0.801 | | | | 1.57 | | | 14 |
| 15 | | 0.232 E | | | | 0.295 | | | | 1.42 E | | | 15 |
| 16 | | 0.218 E | | | | 2.36 | | | | 0.810 B | | | 16 |
| 17 | | 0.205 | | | | 1.68 | | | | 0.320 B | | | 17 |
| 18 | | 0.189 | | | | 0.581 | | | | 0.245 B | | | 18 |
| 19 | | 0.149 | | | | 1.08 E | | | | 0.215 B | | | 19 |
| 20 | | 0.149 | | | | 1.84 | | | | 0.220 B | | | 20 |
| 21 | | 0.205 | | | | 0.925 | | | 0.3 | 0.235 B | 1 S | 0.02 | 21 |
| 22 | | 0.218 E | | | 5.0 | 0.860 | 1 S | 0.08 | | 0.425 B | | | 22 |
| 23 | | 0.232 E | | | | 0.478 | | | | 0.260 B | | | 23 |
| 24 | | 0.245 | | | | 0.471 | 3 S | 0.12 | | 0.222 B | | | 24 |
| 25 | 5.0 | 0.262 | 5 E | 0.11 | | 0.462 | | | | 0.205 B | | | 25 |
| 26 | | 0.205 | | | | 0.365 E | | | | 0.200 B | | | 26 |
| 27 | | 0.205 | | | | 0.268 | | | | 0.190 B | | | 27 |
| 28 | | 0.185 | | | | 0.784 E | | | | 0.200 B | | | 28 |
| 29 | | 0.178 E | | | | 1.28 | | | | 0.210 B | | | 29 |
| 30 | | 0.172 E | | | | 0.735 | | | | 0.185 B | | | 30 |
| 31 | | 0.185 | | | | | | | | 0.180 B | | | 31 |
| TOTAL | | 5.275 | | | | 15.845 | | | | 26.218 | | | TOTAL |
| MEAN | | 0.170 | | | | 0.555 | | | | 0.849 | | | MEAN |

TYPE OF GAUGE - MANUAL
LOCATION - LAT 43 53 18 N
LONG 78 49 18 W
DRAINAGE AREA 58.5 $km^2$
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - SEASONAL OPERATION (FRESHET - MAY 31)

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 |
| MAR 19 | 11:52 | 0.55H | 2.0 | 2 310 K | 4 | 7 | 13 | 23 | 35 | 55 | 72 | 89 | 97 | 100 | SNW |

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASURE-MENT ($m^3/s$) | NUMBER OF SAMPLING POINTS | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | | | METHOD OF ANALYSIS | TYPE OF SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | 4.000 | 8.000 | 16.000 | 32.000 | 64.000 | | |
| JUL 27 | 12:20 | 0.069 | 8 | 2 | 4 | 8 | 17 | 31 | 44 | 50 | 54 | 58 | 63 | 74 | 88 | 100 | SH | SCDSP |

HALFWAY CREEK AT NOBSONNE - STATION NO. 04KA002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.108 B | 48 | 0.48 | | 0.038 B | 48 | 0.15 | | 0.030 B | 47 | 0.12 | 1 |
| 2 | | 0.102 B | 51 | 0.45 | | 0.037 B | 48 | 0.15 | | 0.030 B | 48 | 0.12 | 2 |
| 3 | | 0.098 B | 51 | 0.43 | | 0.037 B | 48 | 0.15 | | 0.030 B | 48 | 0.12 | 3 |
| 4 | | 0.093 B | 50 | 0.40 | | 0.036 B | 48 | 0.14 | | 0.030 B | 48 | 0.12 | 4 |
| 5 | | 0.089 B | 46 | 0.35 | | 0.035 B | 48 | 0.14 | | 0.030 B | 48 | 0.12 | 5 |
| 6 | | 0.085 B | 43 | 0.32 | | 0.035 B | 48 | 0.14 | | 0.030 B | 48 | 0.12 | 6 |
| 7 | | 0.081 B | 42 | 0.29 | | 0.034 B | 48 | 0.14 | | 0.031 B | 44 | 0.12 | 7 |
| 8 | 0.1 | 0.078 B | 42 S | 0.28 | | 0.034 B | 48 | 0.14 | | 0.032 B | 44 | 0.12 | 8 |
| 9 | | 0.075 B | 42 | 0.27 | | 0.033 B | 48 | 0.13 | | 0.033 B | 48 | 0.13 | 9 |
| 10 | | 0.072 B | 40 | 0.25 | | 0.033 B | 48 | 0.13 | | 0.034 B | 48 | 0.14 | 10 |
| 11 | | 0.088 B | 38 | 0.23 | | 0.032 B | 48 | 0.13 | | 0.035 B | 48 | 0.14 | 11 |
| 12 | | 0.086 B | 40 | 0.23 | | 0.032 B | 48 | 0.13 | | 0.037 B | 44 | 0.14 | 12 |
| 13 | | 0.084 B | 40 | 0.22 | | 0.032 B | 48 | 0.13 | | 0.038 B | 48 | 0.16 | 13 |
| 14 | | 0.081 B | 41 | 0.22 | | 0.031 B | 47 | 0.13 | | 0.041 B | 47 | 0.17 | 14 |
| 15 | | 0.078 B | 42 | 0.21 | | 0.031 B | 47 | 0.13 | | 0.042 B | 48 | 0.17 | 15 |
| 16 | | 0.057 B | 42 | 0.21 | | 0.031 B | 47 | 0.13 | | 0.044 B | 48 | 0.18 | 16 |
| 17 | | 0.085 B | 42 | 0.20 | | 0.031 B | 47 | 0.13 | | 0.043 B | 48 | 0.18 | 17 |
| 18 | | 0.084 B | 43 | 0.20 | | 0.031 B | 48 | 0.13 | | 0.043 B | 48 | 0.17 | 18 |
| 19 | | 0.082 B | 41 | 0.18 | | 0.031 B | 47 | 0.13 | | 0.042 B | 47 | 0.17 | 19 |
| 20 | | 0.080 B | 40 | 0.17 | | 0.031 B | 48 | 0.12 | | 0.041 B | 47 | 0.17 | 20 |
| 21 | | 0.048 B | 43 | 0.18 | | 0.031 B | 47 | 0.13 | | 0.040 B | 48 | 0.18 | 21 |
| 22 | | 0.047 B | 48 | 0.18 | | 0.031 B | 47 | 0.13 | | 0.038 B | 48 | 0.16 | 22 |
| 23 | | 0.048 B | 43 | 0.17 | | 0.031 B | 48 | 0.12 | | 0.038 B | 48 | 0.18 | 23 |
| 24 | | 0.048 B | 43 | 0.17 | | 0.031 B | 48 | 0.12 | 0.1 | 0.038 B | 47 S | 0.15 | 24 |
| 25 | | 0.043 B | 42 | 0.18 | | 0.031 B | 48 | 0.12 | | 0.037 B | 48 | 0.18 | 25 |
| 26 | | 0.042 B | 44 | 0.18 | | 0.031 B | 48 | 0.12 | | 0.038 B | 47 | 0.18 | 26 |
| 27 | | 0.042 B | 44 | 0.18 | | 0.030 B | 47 | 0.12 | | 0.035 B | 48 | 0.15 | 27 |
| 28 | | 0.041 B | 48 | 0.18 | | 0.030 B | 47 | 0.12 | | 0.034 B | 47 | 0.14 | 28 |
| 29 | | 0.040 B | 47 | 0.18 | | | | | | 0.034 B | 48 | 0.13 | 29 |
| 30 | | 0.038 B | 47 | 0.18 | | | | | | 0.033 B | 48 | 0.13 | 30 |
| 31 | | 0.036 B | 47 | 0.15 | | | | | | 0.033 B | 48 | 0.13 | 31 |
| TOTAL | | 1.940 | | 7.38 | | 0.911 | | 3.88 | | 1.114 | | 4.80 | TOTAL |
| MEAN | | 0.063 | | 0.24 | | 0.033 | | 0.13 | | 0.036 | | 0.15 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.033 B | 48 | 0.13 | | 0.100 B | 44 | 0.38 | | 4.70 | 88 | 36.9 | 1 |
| 2 | | 0.033 B | 44 | 0.13 | | 0.200 B | 58 | 0.87 | | 4.33 | 84 | 23.9 | 2 |
| 3 | | 0.032 B | 43 | 0.12 | | 0.850 B | 78 | 4.21 | | 3.97 | 48 | 18.8 | 3 |
| 4 | | 0.032 B | 48 | 0.12 | | 2.00 B | 112 | 19.4 | | 3.63 | 38 | 11.0 | 4 |
| 5 | | 0.032 B | 43 | 0.12 | | 4.80 B | 488 | 194 | | 3.30 | 32 | 9.12 | 5 |
| 6 | | 0.031 B | 41 | 0.11 | | 11.0 B | 443 | 421 | | 3.02 | 34 | 8.87 | 8 |
| 7 | | 0.031 B | 40 | 0.11 | | 9.50 B | 321 | 283 | | 3.32 | 43 | 12.3 | 7 |
| 8 | | 0.030 B | 40 | 0.10 | | 8.00 B | 268 | 178 | | 3.80 | 48 | 13.8 | 8 |
| 9 | | 0.031 B | 37 | 0.10 | | 7.00 B | 281 | 188 | 8.0 | 3.32 | 34 S | 9.75 | 9 |
| 10 | | 0.032 B | 38 | 0.10 | | 6.10 B | 234 | 123 | | 3.06 | 27 | 7.14 | 10 |
| 11 | | 0.033 B | 33 | 0.09 | | 5.80 B | 208 | 103 | | 2.78 | 24 | 5.76 | 11 |
| 12 | | 0.036 B | 36 | 0.11 | | 5.60 B | 328 | 109 | | 2.57 | 23 | 5.11 | 12 |
| 13 | | 0.037 B | 38 | 0.12 | | 8.39 | 388 | 141 | | 2.43 | 21 | 4.41 | 13 |
| 14 | | 0.038 B | 36 | 0.11 | | 8.73 | 384 | 185 | | 2.19 | 21 | 3.97 | 14 |
| 15 | | 0.041 B | 33 | 0.12 | | 8.61 | 384 | 170 | | 2.01 | 18 | 3.13 | 15 |
| 16 | | 0.044 B | 36 | 0.13 | 1.0 | 8.28 | 272 S | 187 | | 1.85 | 27 | 4.32 | 16 |
| 17 | | 0.047 B | 36 | 0.15 | | 5.59 | 285 | 122 | | 2.20 | 47 | 8.93 | 17 |
| 18 | | 0.050 B | 33 | 0.14 | | 5.18 | 234 | 105 | | 2.27 | 43 | 8.43 | 18 |
| 19 | | 0.052 B | 30 | 0.13 | | 4.85 | 218 | 90.5 | | 2.08 | 38 | 6.88 | 19 |
| 20 | | 0.054 B | 28 | 0.14 | | 4.84 | 301 | 84.1 | | 1.80 | 33 | 5.13 | 20 |
| 21 | | 0.052 B | 28 | 0.13 | | 4.89 | 187 | 74.2 | | 1.48 | 28 | 3.83 | 21 |
| 22 | | 0.050 B | 27 | 0.12 | | 4.36 | 178 | 88.3 | | 1.29 | 24 | 2.87 | 22 |
| 23 | | 0.047 B | 26 | 0.10 | | 4.88 | 188 | 74.8 | | 1.22 | 23 | 3.42 | 23 |
| 24 | | 0.048 B | 22 | 0.09 | | 5.85 | 248 | 118 | | 1.06 | 23 | 3.11 | 24 |
| 25 | | 0.048 B | 18 | 0.08 | | 5.80 | 288 | 130 | | 0.935 | 33 | 1.88 | 25 |
| 26 | | 0.051 B | 18 | 0.08 | | 5.82 | 220 | 107 | | 0.824 | 22 | 1.57 | 26 |
| 27 | | 0.054 B | 22 | 0.10 | | 5.33 | 204 | 83.5 | | 0.788 | 21 | 1.40 | 27 |
| 28 | | 0.058 B | 26 | 0.13 | | 5.38 | 202 | 83.8 | | 0.688 | 18 | 1.13 | 28 |
| 29 | | 0.058 B | 28 | 0.18 | | 5.32 | 181 | 83.2 | | 0.584 | 17 | 0.88 | 29 |
| 30 | | 0.055 B | 28 | 0.21 | | 5.23 | 186 | 70.5 | | 0.583 | 17 | 0.83 | 30 |
| 31 | | | | | | 4.88 | 121 | 83.1 | | | | | 31 |
| TOTAL | | 1.308 | | 3.58 | | 184.000 | | 3 883.26 | | 67.730 | | 230.81 | TOTAL |
| MEAN | | 0.043 | | 0.12 | | 5.39 | | 118 | | 2.28 | | 7.38 | MEAN |

HALFWAY CREEK AT MOOSONEE - STATION NO. 04KA002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.903 | 32 | 2.80 | | 0.188 | 24 | 0.39 | | 0.100 | 27 | 0.23 | 1 |
| 2 | | 1.28 | 59 | 6.53 | | 0.188 | 26 | 0.42 | | 0.127 | 29 | 0.32 | 2 |
| 3 | | 1.31 | 61 | 6.90 | | 0.188 | 27 | 0.44 | | 0.114 | 26 | 0.26 | 3 |
| 4 | | 1.43 | 53 | 6.55 | 17.0 | 0.181 | 26 S | 0.41 | | 0.105 | 22 | 0.20 | 4 |
| 5 | | 1.33 | 47 | 5.40 | | 0.194 | 32 | 0.54 | | 0.102 | 23 | 0.20 | 5 |
| 6 | | 1.17 | 44 | 4.45 | | 0.214 | 34 | 0.63 | | 0.108 | 24 | 0.22 | 6 |
| 7 | | 1.01 | 43 | 3.75 | | 0.197 | 31 | 0.53 | | 0.118 | 28 | 0.28 | 7 |
| 8 | | 0.818 | 43 | 3.40 | 18.0 | 0.228 | 33 S | 0.65 | | 0.108 | 24 | 0.22 | 8 |
| 9 | | 0.828 | 41 | 2.93 | | 0.226 | 29 | 0.57 | | 0.108 | 24 | 0.22 | 9 |
| 10 | | 0.709 | 42 | 2.57 | | 0.201 | 30 | 0.52 | | 0.101 | 24 | 0.21 | 10 |
| 11 | | 0.881 | 47 | 2.77 | | 0.188 | 35 | 0.56 | | 0.108 | 24 | 0.22 | 11 |
| 12 | | 0.851 | 46 | 2.58 | | 0.189 | 35 | 0.61 | | 0.111 | 24 | 0.23 | 12 |
| 13 | | 0.651 | 43 | 2.05 | | 0.183 | 33 | 0.48 | | 0.108 | 25 | 0.24 | 13 |
| 14 | | 0.468 | 41 | 1.58 | | 0.145 | 31 | 0.39 | | 0.108 | 24 | 0.22 | 14 |
| 15 | | 0.398 | 40 | 1.38 | | 0.140 | 31 | 0.37 | | 0.113 | 23 | 0.22 | 15 |
| 16 | | 0.388 | 38 | 1.24 | | 0.138 | 31 | 0.37 | | 0.104 | 25 | 0.22 | 16 |
| 17 | | 0.342 | 40 | 1.18 | | 0.134 | 31 | 0.36 | | 0.101 | 27 | 0.24 | 17 |
| 18 | | 0.328 | 41 | 1.18 | | 0.130 | 30 | 0.34 | | 0.110 | 25 | 0.24 | 18 |
| 19 | 18.0 | 0.330 | 41 S | 1.17 | | 0.127 | 29 | 0.32 | | 0.128 | 25 | 0.30 | 19 |
| 20 | | 0.348 | 43 | 1.26 | | 0.125 | 31 | 0.33 | | 0.153 | 30 | 0.53 | 20 |
| 21 | | 0.348 | 42 | 1.25 | | 0.118 | 31 | 0.31 | | 0.280 | 65 | 1.57 | 21 |
| 22 | | 0.310 | 41 | 1.10 | | 0.119 | 31 | 0.32 | | 0.300 | 60 | 2.07 | 22 |
| 23 | | 0.303 | 33 | 0.86 | | 0.114 | 28 | 0.28 | | 0.278 | 69 | 1.85 | 23 |
| 24 | | 0.283 | 28 | 0.73 | | 0.111 | 25 | 0.24 | | 0.241 | 64 | 1.33 | 24 |
| 25 | | 0.288 | 28 | 0.87 | | 0.114 | 25 | 0.25 | 11.0 | 0.188 | 64 S | 1.04 | 25 |
| 26 | | 0.232 | 28 | 0.55 | | 0.122 | 27 | 0.28 | | 0.182 | 63 | 0.99 | 26 |
| 27 | 16.0 | 0.228 | 26 S | 0.48 | | 0.122 | 28 | 0.31 | | 0.181 | 61 | 0.95 | 27 |
| 28 | | 0.213 | 23 | 0.42 | | 0.114 | 28 | 0.28 | | 0.183 | 57 | 0.80 | 28 |
| 29 | | 0.206 | 23 | 0.41 | | 0.117 | 29 | 0.29 | | 0.187 | 55 | 0.79 | 29 |
| 30 | | 0.193 | 24 | 0.40 | | 0.110 | 28 | 0.27 | | 0.204 | 53 | 0.82 | 30 |
| 31 | | 0.187 | 23 | 0.37 | | 0.103 | 26 | 0.23 | | | | | 31 |
| TOTAL | | 18.104 | | 68.63 | | 4.732 | | 12.18 | | 4.430 | | 17.11 | TOTAL |
| MEAN | | 0.584 | | 2.21 | | 0.153 | | 0.39 | | 0.148 | | 0.57 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.495 | 74 | 3.18 | | 1.80 | 81 | 12.6 | | 1.88 E | 33 | 4.80 | 1 |
| 2 | | 0.674 | 81 | 5.30 | | 1.88 | 86 | 11.6 | | 1.37 E | 30 | 3.85 | 2 |
| 3 | | 0.804 | 88 | 6.05 | | 1.88 | 90 | 11.6 | | 1.14 E | 30 | 2.95 | 3 |
| 4 | | 0.887 | 97 | 3.28 | | 1.88 | 78 | 11.4 | | 0.870 E | 32 | 2.88 | 4 |
| 5 | | 0.884 | 46 | 3.31 | | 1.44 | 76 | 9.46 | | 0.830 E | 34 | 2.44 | 5 |
| 6 | | 0.838 | 38 | 1.83 | | 1.71 | 69 | 10.2 | | 0.720 E | 34 | 2.12 | 6 |
| 7 | | 0.482 | 30 | 1.25 | | 1.48 | 83 | 8.06 | | 0.840 E | 38 | 1.84 | 7 |
| 8 | | 0.485 | 28 | 1.17 | | 1.52 | 87 | 7.48 | | 0.570 E | 38 | 1.72 | 8 |
| 9 | | 0.417 | 30 | 1.08 | | 1.70 | 80 | 7.34 | | 0.500 E | 38 | 1.55 | 9 |
| 10 | | 0.352 | 30 | 0.81 | | 1.78 | 42 | 8.38 | | 0.480 E | 37 | 1.44 | 10 |
| 11 | | 0.318 | 28 | 0.80 | | 1.30 | 31 | 3.48 | | 0.405 E | 38 | 1.33 | 11 |
| 12 | | 0.312 | 28 | 0.78 | | 1.38 | 42 | 4.80 | | 0.380 E | 37 | 1.15 | 12 |
| 13 | | 0.878 | 48 | 2.87 | | 1.51 | 48 | 5.87 | | 0.330 E | 35 | 1.00 | 13 |
| 14 | | 3.81 | 198 | 86.3 | | 1.38 | 41 | 4.89 | | 0.300 E | 35 | 0.91 | 14 |
| 15 | | 4.88 | 178 | 75.5 | | 1.22 | 38 | 4.11 | | 0.278 E | 35 | 0.83 | 15 |
| 16 | | 4.92 | 124 | 52.7 | | 1.12 | 33 | 3.19 | | 0.250 E | 35 | 0.78 | 16 |
| 17 | | 4.77 | 111 | 45.7 | | 1.01 | 28 | 2.44 | | 0.232 E | 34 | 0.68 | 17 |
| 18 | | 4.48 | 108 | 40.8 | | 0.952 | 26 | 2.14 | | 0.218 E | 35 | 0.66 | 18 |
| 19 | | 4.07 | 102 | 35.9 | | 0.885 | 26 | 1.99 | | 0.200 E | 32 | 0.55 | 19 |
| 20 | | 3.62 | 100 | 31.3 | | 0.848 | 24 | 1.76 | | 0.185 E | 33 | 0.53 | 20 |
| 21 | | 3.28 | 88 | 27.6 | | 1.23 | 33 | 3.61 | | 0.173 E | 33 | 0.48 | 21 |
| 22 | | 2.93 | 86 | 24.8 | | 1.78 | 68 | 8.82 | | 0.181 E | 30 | 0.42 | 22 |
| 23 | | 2.87 | 97 | 22.4 | | 2.05 | 61 | 9.03 | | 0.181 E | 30 | 0.39 | 23 |
| 24 | | 2.48 | 84 | 19.9 | | 2.80 | 73 | 16.4 | | 0.141 E | 32 | 0.39 | 24 |
| 25 | | 2.38 | 83 | 18.3 | | 3.08 | 100 | 28.7 | | 0.133 E | 30 | 0.34 | 25 |
| 26 | | 2.26 | 84 | 18.2 | | 2.88 | 88 | 17.6 | | 0.128 E | 30 | 0.33 | 26 |
| 27 | | 2.14 | 88 | 17.8 | | 2.83 | 82 | 12.7 | | 0.118 E | 31 | 0.32 | 27 |
| 28 | | 2.02 | 88 | 16.6 | | 2.88 | 45 | 10.0 | | 0.112 E | 31 | 0.30 | 28 |
| 29 | | 1.83 | 81 | 18.2 | | 2.42 | 40 | 8.38 | | 0.107 E | 31 | 0.28 | 29 |
| 30 | | 1.80 | 83 | 14.5 | | 1.88 E | 37 | 8.23 | | 0.100 E | 28 | 0.25 | 30 |
| 31 | 1.8 | 1.71 | 81 S | 13.4 | | | | | | 0.096 E | 28 | 0.24 | 31 |
| TOTAL | | 82.827 | | 574.75 | | 51.183 | | 251.88 | | 12.840 | | 37.05 | TOTAL |
| MEAN | | 2.02 | | 18.5 | | 1.71 | | 8.40 | | 0.417 | | 1.20 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 4 784.78 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 141 | |
| MAXIMUM DAILY | 486 | ON MAY 05 |
| MINIMUM DAILY | 17 | ON JUN 20 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 13.1 | |
| MAXIMUM DAILY | 431 | ON MAY 05 |
| MINIMUM DAILY | 0.05 | ON APR 26 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 15 15 N
LONG 80 39 14 W
DRAINAGE AREA 133 km²
NATURAL FLOW

E - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1983

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **JAN** | | | | |
| 1 | | 0.270 B | 54 | 1.26 |
| 2 | | 0.240 B | 28 | 0.80 |
| 3 | | 0.230 B | 32 | 0.81 |
| 4 | | 0.190 B | 31 | 0.51 |
| 5 | | 0.210 | 27 | 0.51 |
| 6 | | 0.210 | 24 | 0.44 |
| 7 | | 0.539 | 68 | 3.07 |
| 8 | | 0.338 B | 56 | 1.58 |
| 9 | | 0.245 B | 67 | 1.42 |
| 10 | | 1.82 B | 613 | 80.5 |
| 11 | | 2.90 | 700 | 175 |
| 12 | | 0.940 B | 162 | 13.2 |
| 13 | | 0.410 B | 58 | 2.05 |
| 14 | | 0.280 B | 43 | 1.05 |
| 15 | | 0.270 B | 36 | 0.84 |
| 16 | | 0.230 B | 34 | 0.68 |
| 17 | | 0.215 B | 35 | 0.65 |
| 18 | | 0.200 B | 48 | 0.83 |
| 19 | | 0.215 B | 42 | 0.78 |
| 20 | | 0.300 B | 18 | 0.33 |
| 21 | | 0.195 B | 17 | 0.28 |
| 22 | | 0.210 B | 18 | 0.34 |
| 23 | | 0.300 B | 33 | 0.84 |
| 24 | | 0.505 B | 74 | 3.23 |
| 25 | | 0.300 B | 49 | 1.27 |
| 26 | | 0.203 B | 23 | 0.40 |
| 27 | | 0.200 B | 23 | 0.40 |
| 28 | | 0.185 B | 22 | 0.31 |
| 29 | | 0.180 B | 27 | 0.42 |
| 30 | | 0.240 B | 27 | 0.55 |
| 31 | | 0.480 B | 30 | 1.17 |
| TOTAL | | 12.805 | | 295.28 |
| MEAN | | 0.413 | | 9.53 |
| **FEB** | | | | |
| | | 0.260 B | 31 | 0.70 |
| | | 3.85 B | 15 | 4.73 |
| | | 6.20 E | 1 580 | 835 |
| | | 1.25 E | 977 | 165 |
| | | 0.670 B | 141 | 5.16 |
| | | 0.310 B | 47 | 1.28 |
| | | 0.245 B | 13 | 0.26 |
| | | 0.210 B | 14 | 0.26 |
| | | 0.170 B | 14 | 0.21 |
| | | 0.140 B | 15 | 0.18 |
| | | 0.135 B | 13 | 0.15 |
| | | 0.120 B | 13 | 0.13 |
| | | 0.110 B | 11 | 0.10 |
| | | 0.110 B | 10 | 0.10 |
| | | 0.121 B | 10 | 0.10 |
| | | 0.235 B | 19 | 0.42 |
| | | 0.350 B | 45 | 1.36 |
| | | 0.205 B | 18 | 0.32 |
| | | 0.185 B | 12 | 0.17 |
| | | 0.180 B | 13 | 0.17 |
| | | 0.150 B | 18 | 0.21 |
| | | 0.150 B | 28 | 0.40 |
| | | 2.84 | 86 | 20.1 |
| | | 0.478 | 29 | 1.20 |
| | | 0.280 B | 39 | 0.88 |
| | | 0.230 B | 29 | 0.58 |
| | | 0.220 B | 25 | 0.46 |
| | | 0.215 B | 25 | 0.46 |
| | | 18.207 | | 985.10 |
| | | 0.666 | | 35.2 |
| **MAR** | | | | |
| | | 0.190 B | 25 | 0.43 |
| | | 0.175 B | 25 | 0.38 |
| | 2.0 | 0.218 | 25 S | 0.47 |
| | | 0.344 | 24 | 0.83 |
| | | 0.351 | 27 | 0.82 |
| | | 0.371 | 22 | 0.71 |
| | | 0.500 | 26 S | 1.12 |
| | 3.0 | 0.520 | 37 | 1.88 |
| | | 0.749 | 48 S | 3.11 |
| | 2.0 | 0.721 | 24 S | 1.80 |
| | 3.0 | | | |
| | | 0.490 B | 18 | 0.88 |
| | | 0.365 B | 20 | 0.63 |
| | | 0.320 B | 21 | 0.58 |
| | | 0.297 | 12 S | 0.31 |
| | 2.0 | 0.301 | 8 | 0.21 |
| | | 0.286 | 5 S | 0.12 |
| | 3.0 | 0.305 | 3 | 0.08 |
| | | 0.693 | 104 S | 5.33 |
| | 3.0 | 8.05 | 3 110 S | 2 160 |
| | 3.0 | 1.78 | 870 | 104 |
| | | 0.570 B | 40 S | 1.97 |
| | 2.0 | 0.500 B | 40 | 1.73 |
| | | 0.440 B | 34 S | 1.20 |
| | 1.0 | 0.410 B | 28 | 0.98 |
| | 0.1 | 0.350 B | 16 S | 0.84 |
| | | 0.380 B | 52 | 1.71 |
| | | 0.635 | 88 | 5.42 |
| | | 1.72 | 418 S | 81.7 |
| | 1.5 | 0.630 B | 278 | 19.7 |
| | | 0.580 B | 84 S | 4.26 |
| | 3.0 | 0.508 | 71 | 3.10 |
| | | 24.174 | | 2 386.70 |
| | | 0.780 | | 77.0 |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **APR** | | | | |
| 1 | | 0.477 | 68 | 2.80 |
| 2 | | 0.515 | 63 | 3.09 |
| 3 | | 2.82 | 288 | 85.2 |
| 4 | 3.0 | 1.17 | 86 S | 8.87 |
| 5 | 3.0 | 0.875 | 33 S | 1.83 |
| 6 | | 0.538 | 24 | 1.12 |
| 7 | 3.0 | 0.597 | 31 S | 1.80 |
| 8 | 3.0 | 0.518 | 41 S | 1.83 |
| 9 | | 0.404 | 41 | 1.43 |
| 10 | | 5.38 | 303 | 187 |
| 11 | 3.0 | 1.23 | 76 S | 8.06 |
| 12 | | 0.646 | 57 | 3.16 |
| 13 | 3.0 | 0.488 | 53 S | 2.09 |
| 14 | | 1.05 | 118 | 10.9 |
| 15 | 2.0 | 2.74 | 170 S | 40.2 |
| 16 | | 0.780 | 68 | 4.33 |
| 17 | | 0.508 | 62 | 2.71 |
| 18 | 1.0 | 0.418 | 55 S | 1.98 |
| 19 | 5.0 | 0.343 | 44 S | 1.30 |
| 20 | 5.0 | 0.341 | 34 S | 1.00 |
| 21 | | 0.373 | 50 | 1.81 |
| 22 | 5.0 | 0.344 | 46 S | 1.37 |
| 23 | | 0.282 | 45 | 1.14 |
| 24 | | 0.398 | 37 | 1.28 |
| 25 | 5.0 | 0.233 | 55 S | 1.06 |
| 26 | | 0.195 | 47 | 0.78 |
| 27 | | 0.171 | 38 | 0.63 |
| 28 | 5.0 | 0.280 | 52 S | 1.26 |
| 29 | 5.0 | 0.338 | 85 S | 1.12 |
| 30 | | 1.40 | 141 | 17.1 |
| 31 | | | | |
| TOTAL | | 28.173 | | 386.48 |
| MEAN | | 0.873 | | 11.9 |
| **MAY** | | | | |
| | | 0.831 | 59 | 4.24 |
| | 11.0 | 3.08 | 148 S | 39.7 |
| | | 1.43 | 73 | 11.5 |
| | 10.0 | 1.38 | 83 S | 5.77 |
| | | 0.843 | 24 | 1.12 |
| | | 0.372 | 17 | 0.55 |
| | | 0.347 | 20 | 0.60 |
| | | 0.651 | 75 | 4.41 |
| | 10.0 | 0.381 | 60 S | 1.85 |
| | | 0.277 | 42 | 1.01 |
| | 11.0 | 0.232 | 36 S | 0.76 |
| | | 0.204 | 31 | 0.55 |
| | 12.0 | 0.184 | 22 S | 0.35 |
| | | 0.207 | 23 | 0.41 |
| | | 0.348 | 79 | 2.38 |
| | 11.0 | 0.208 | 50 S | 0.89 |
| | | 0.164 | 47 | 0.67 |
| | 12.0 | 0.139 | 42 S | 0.50 |
| | | 1.80 | 102 | 15.9 |
| | 12.0 | 1.52 | 46 S | 5.81 |
| | | 0.538 | 17 | 0.79 |
| | | 0.836 | 51 | 3.68 |
| | | 1.49 | 122 | 15.7 |
| | 10.0 | 0.573 | 86 S | 2.77 |
| | | 0.578 | 82 | 3.10 |
| | 11.0 | 0.603 | 82 S | 3.33 |
| | 10.0 | 0.272 | 43 S | 1.38 |
| | | 0.298 | 42 | 1.07 |
| | | 0.550 | 82 | 4.37 |
| | 11.0 | 0.692 | 71 S | 4.38 |
| | 15.0 | 0.384 | 26 S | 0.88 |
| | | 21.622 | | 140.84 |
| | | 0.694 | | 4.52 |
| **JUN** | | | | |
| | | 0.337 | 12 | 0.35 |
| | | 0.286 | 11 | 0.27 |
| | | 0.218 | 12 | 0.23 |
| | | 0.263 | 8 | 0.18 |
| | | 0.217 | 8 | 0.11 |
| | | 0.511 | 180 | 7.88 |
| | | 0.330 | 100 | 2.85 |
| | | 0.208 | 80 | 1.44 |
| | | 0.182 | 73 | 0.96 |
| | | 0.131 | 71 | 0.80 |
| | | 0.122 | 70 | 0.74 |
| | | 0.097 | 83 | 0.83 |
| | | 0.088 | 80 | 0.65 |
| | | 0.074 | 57 | 0.36 |
| | | 0.078 | 83 | 0.34 |
| | | 0.089 | 50 | 0.30 |
| | | 0.088 | 49 | 0.23 |
| | | 0.081 | 46 | 0.21 |
| | | 0.064 | 68 | 0.18 |
| | | 0.037 | 37 | 0.12 |
| | | 0.032 | 29 | 0.08 |
| | | 0.028 | 27 | 0.07 |
| | | 0.036 | 26 | 0.08 |
| | | 0.027 | 24 S | 0.05 |
| | | 0.024 | 21 | 0.04 |
| | | 0.087 | 53 | 0.40 |
| | | 0.034 | 38 | 0.11 |
| | | 0.113 | 84 | 0.82 |
| | | 0.039 | 41 | 0.16 |
| | | 0.116 | 73 | 0.73 |
| | | 3.693 | | 20.82 |
| | | 0.130 | | 0.70 |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|
| | | | | 0.43 | 1 |
| | | | | 0.38 | 2 |
| | | | | 0.47 | 3 |
| | | | | 0.83 | 4 |
| | | | | 0.82 | 5 |
| | | | | 0.71 | 6 |
| | | | | 1.12 | 7 |
| | | | | 1.88 | 8 |
| | | | | 3.11 | 9 |
| | | | | 1.80 | 10 |
| | | | | 0.88 | 11 |
| | | | | 0.83 | 12 |
| | | | | 0.68 | 13 |
| | | | | 0.31 | 14 |
| | | | | 0.21 | 15 |
| | | | | 0.12 | 16 |
| | | | | 0.08 | 17 |
| | | | | 5.33 | 18 |
| | | | | 2 160 | 19 |
| | | | | 104 | 20 |
| | | | | 1.97 | 21 |
| | | | | 1.73 | 22 |
| | | | | 1.20 | 23 |
| | | | | 0.98 | 24 |
| | | | | 0.84 | 25 |
| | | | | 1.71 | 26 |
| | | | | 5.42 | 27 |
| | | | | 81.7 | 28 |
| | | | | 19.7 | 29 |
| | | | | 4.26 | 30 |
| | | | | 3.10 | 31 |
| | | | | 2 386.70 | TOTAL |
| | | | | 77.0 | MEAN |

| DAY | TEMP. (°C) | DAILY DISCHARGE ($m^3/s$) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|
| | | | | 0.30 | 16 |
| | | | | 0.23 | 17 |
| | | | | 0.21 | 18 |
| | | | | 0.18 | 19 |
| | | | | 0.12 | 20 |
| | | | | 0.08 | 21 |
| | | | | 0.07 | 22 |
| | | | | 0.08 | 23 |
| | | | | 0.05 | 24 |
| | | | | 0.04 | 25 |
| | | | | 0.40 | 26 |
| | | | | 0.11 | 27 |
| | | | | 0.82 | 28 |
| | | | | 0.16 | 29 |
| | | | | 0.73 | 30 |
| | | | | | 31 |
| | | | | 20.82 | TOTAL |
| | | | | 0.70 | MEAN |

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.074 | 104 | 0.66 | | 0.859 | 989 | 55.3 | | 0.023 | 21 | 0.04 | 1 |
| 2 | | 0.034 | 90 | 0.18 | | 0.061 | 116 | 0.30 | | 0.021 | 18 | 0.03 | 2 |
| 3 | | 0.067 | 84 | 0.63 | | 0.030 | 45 | 0.12 | | 0.020 | 19 | 0.03 | 3 |
| 4 | | 0.071 | 81 | 0.31 | | 0.168 | 138 | 1.73 | | 0.021 | 20 | 0.04 | 4 |
| 5 | | 0.080 | 77 | 0.40 | | 0.031 | 34 | 0.07 | | 0.020 | 17 | 0.03 | 5 |
| 6 | | 0.030 | 51 | 0.13 | | 0.027 | 23 | 0.05 | | 0.148 | 79 | 1.01 | 6 |
| 7 | | 0.038 | 50 | 0.13 | | 0.026 | 15 | 0.04 | | 0.024 | 17 E | 0.04 | 7 |
| 8 | | 0.035 | 48 | 0.11 | | 0.037 | 38 | 0.13 | | 0.021 | 8 | 0.01 | 8 |
| 9 | | 0.038 | 57 | 0.18 | | 0.032 | 50 | 0.14 | | 0.021 | 11 | 0.02 | 9 |
| 10 | | 0.032 | 56 | 0.15 | | 0.023 | 20 | 0.04 | | 0.078 | 79 | 0.53 | 10 |
| 11 | | 0.026 | 53 | 0.12 | | 0.218 | 393 | 7.44 | | 0.021 | 13 | 0.02 | 11 |
| 12 | | 0.029 | 54 | 0.14 | | 0.038 | 67 | 0.23 | | 0.020 | 11 | 0.02 | 12 |
| 13 | | 0.030 | 46 | 0.12 | | 0.026 | 28 | 0.06 | | 0.020 | 10 | 0.02 | 13 |
| 14 | | 0.033 | 39 | 0.11 | | 0.023 | 22 | 0.04 | | 0.020 | 11 | 0.02 | 14 |
| 15 | | 0.082 | 49 | 0.38 | | 0.022 | 19 | 0.04 | | 0.018 | 15 | 0.02 | 15 |
| 16 | | 0.158 | 88 | 1.19 | | 0.022 | 18 | 0.03 | | 0.462 | 283 | 11.1 | 16 |
| 17 | | 0.139 | 80 | 0.86 | | 0.021 | 21 | 0.04 | | 0.180 | 74 | 1.03 | 17 |
| 18 | | 0.089 | 54 | 0.45 | | 0.118 | 48 | 0.49 | | 0.214 | 164 | 3.03 | 18 |
| 19 | | 0.027 | 28 | 0.07 | | 0.024 | 14 | 0.03 | | 0.042 | 33 | 0.08 | 19 |
| 20 | | 0.022 | 36 | 0.07 | | 0.021 | 24 | 0.04 | | 0.029 | 13 | 0.03 | 20 |
| 21 | | 0.264 | 173 | 4.25 | | 0.020 | 30 | 0.05 | | 0.415 | 238 | 8.43 | 21 |
| 22 | | 0.027 | 48 | 0.11 | | 0.817 | 1 350 | 95.3 | | 0.078 | 48 | 0.31 | 22 |
| 23 | | 0.026 | 48 | 0.10 | | 0.040 | 33 | 0.11 | | 0.034 | 18 | 0.05 | 23 |
| 24 | | 0.023 | 43 | 0.09 | | 0.028 | 23 | 0.05 | | 0.030 | 14 | 0.04 | 24 |
| 25 | | 0.026 | 46 | 0.10 | | 0.023 | 18 | 0.04 | | 0.031 | 18 | 0.04 | 25 |
| 26 | | 0.018 | 41 | 0.07 | | 0.020 | 18 | 0.03 | | 0.044 | 33 | 0.10 | 26 |
| 27 | 25.0 | 0.018 | 41 E | 0.07 | | 0.021 | 13 | 0.02 | | 0.030 | 23 | 0.06 | 27 |
| 28 | | 0.057 | 83 | 0.31 | | 0.020 | 18 | 0.03 | | 0.027 | 24 | 0.05 | 28 |
| 29 | | 0.073 | 86 | 0.37 | | 0.020 | 18 | 0.03 | | 0.026 | 22 | 0.05 | 29 |
| 30 | | 0.069 | 81 | 0.47 | | 0.388 | 573 | 19.6 | | 0.027 | 28 | 0.06 | 30 |
| 31 | | 0.118 | 72 | 0.72 | | 0.032 | 37 | 0.10 | | | | | 31 |
| TOTAL | | 1.862 | | 13.02 | | 3.041 | | 182.03 | | 2.138 | | 38.34 | TOTAL |
| MEAN | | 0.060 | | 0.42 | | 0.098 | | 5.87 | | 0.071 | | 0.66 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.026 | 37 | 0.08 | | 0.051 | 45 | 0.20 | | 0.277 | 51 | 1.32 | 1 |
| 2 | | 0.030 | 42 | 0.11 | | 0.318 | 170 | 4.67 | | 0.240 | 48 | 0.95 | 2 |
| 3 | | 0.034 | 43 | 0.13 | | 0.710 | 170 | 10.4 | | 0.220 | 46 | 0.87 | 3 |
| 4 | | 1.78 | 705 | 108 | | 0.262 | 45 | 1.00 | | 0.232 | 45 | 0.88 | 4 |
| 5 | | 0.317 | 80 | 2.19 | | 0.188 | 36 | 0.47 | | 0.206 | 82 | 1.42 | 5 |
| 6 | | 0.081 | 49 | 0.34 | | 0.162 | 27 | 0.38 | | 2.28 | 622 | 175 | 6 |
| 7 | | 0.041 | 47 | 0.17 | | 0.131 | 28 | 0.28 | | 1.25 E | 262 | 28.3 | 7 |
| 8 | | 0.388 | 97 | 3.08 | | 0.109 | 24 | 0.23 | | 0.595 E | 136 | 7.00 | 8 |
| 9 | | 0.070 | 58 | 0.38 | | 0.088 | 21 | 0.17 | | 0.353 | 74 | 2.26 | 9 |
| 10 | | 0.041 | 51 | 0.18 | | 0.111 | 46 | 0.44 | | 0.298 E | 47 | 1.20 | 10 |
| 11 | | 0.038 | 46 | 0.14 | | 0.480 | 92 | 3.82 | | 0.307 E | 105 | 2.78 | 11 |
| 12 | | 0.831 | 182 | 13.1 | | 0.284 E | 63 | 1.44 | | 4.22 E | 1 180 | 419 | 12 |
| 13 | | 1.43 | 248 | 30.6 | | 0.154 | 31 | 0.41 | | 1.88 | 273 | 37.3 | 13 |
| 14 | | 0.373 | 74 | 2.38 | | 0.124 | 28 | 0.30 | | 0.880 | 140 | 10.8 | 14 |
| 15 | | 0.113 | 42 | 0.41 | | 0.888 E | 306 | 22.8 | | 1.03 | 108 | 9.43 | 15 |
| 16 | | 0.083 | 41 | 0.28 | | 3.50 E | 481 | 104 | | 0.702 | 74 | 4.49 | 16 |
| 17 | | 0.112 | 52 | 0.50 | | 0.788 | 167 | 10.4 | | 0.450 E | 48 | 1.87 | 17 |
| 18 | | 0.088 | 43 | 0.26 | | 0.402 | 68 | 2.65 | | 0.240 E | 72 | 0.48 | 18 |
| 19 | | 0.085 | 44 | 0.21 | | 0.224 | 70 | 1.35 | | 0.085 E | 7 | 0.05 | 19 |
| 20 | | 0.068 | 46 | 0.17 | | 0.466 | 153 | 6.05 | | 0.080 E | 14 | 0.11 | 20 |
| 21 | | 0.063 | 43 | 0.15 | | 0.885 | 143 | 8.43 | | 0.093 E | 17 E | 0.14 | 21 |
| 22 | | 0.048 | 64 | 0.21 | 5.0 | 0.373 E | 74 E | 2.36 | | 0.342 | 83 | 3.81 | 22 |
| 23 | | 0.638 | 104 | 5.86 | | 0.252 E | 87 E | 2.35 | | 0.180 E | 34 | 0.53 | 23 |
| 24 | | 0.171 | 46 | 0.71 | 4.0 | 0.310 | 84 E | 1.71 | | 0.108 E | 33 | 0.30 | 24 |
| 25 | 5.0 | 0.106 | 50 E | 0.47 | | 0.282 | 61 | 1.19 | | 0.100 E | 31 | 0.27 | 25 |
| 26 | | 0.080 | 51 | 0.35 | | 0.228 | 45 | 0.87 | | 0.095 E | 33 | 0.28 | 26 |
| 27 | | 0.070 | 50 | 0.30 | | 0.187 | 41 | 0.65 | | 0.093 E | 31 | 0.25 | 27 |
| 28 | | 0.070 | 48 | 0.29 | | 0.870 | 183 | 8.44 | | 0.104 E | 26 | 0.23 | 28 |
| 29 | | 0.072 | 51 | 0.32 | | 0.845 | 185 | 12.0 | | 0.110 E | 26 | 0.23 | 29 |
| 30 | | 0.063 | 46 | 0.21 | | 0.388 | 83 | 2.66 | | 0.100 E | 26 | 0.22 | 30 |
| 31 | | 0.061 | 45 | 0.20 | | | | | | 0.080 E | 23 | 0.16 | 31 |
| TOTAL | | 7.336 | | 172.85 | | 13.788 | | 314.88 | | 17.875 | | 710.89 | TOTAL |
| MEAN | | 0.238 | | 5.67 | | 0.426 | | 7.17 | | 0.580 | | 22.9 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 5 904.18 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | | |
|---|---|---|---|
| MEAN | 417 | | |
| MAXIMUM DAILY | 3 110 | ON MAR 19 | |
| MINIMUM DAILY | 3 | ON MAR 17 | |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 15.1 | |
| MAXIMUM DAILY | 3 180 | ON MAR 19 |
| MINIMUM DAILY | 0.01 | ON SEP 08 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 53 15 N
LONG 78 48 30 W
DRAINAGE AREA 41.6 $km^2$
NATURAL FLOW

E - ICE CONDITIONED  E - ESTIMATED  5 - SAMPLE(S) COLLECTED THIS DAY

REMARKS - SEASONAL OPERATION (FEBRUARY - MAY 31)

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAR 19 | 13:00 | 14.2 | 3.0 | 4 180 K | 11 | 17 | 28 | 48 | 60 | 76 | 93 | 98 | 100 | | | SNW |
| MAR 28 | 14:30 | 1.73H | 2.0 | 603 K | 5 | 10 | 25 | 55 | 75 | 88 | 95 | 99 | 100 | | | SNW |

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASURE-MENT ($m^3/s$) | NUMBER OF SAMPLING POINTS | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | | | METHOD OF ANALYSIS | TYPE OF SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | 4.000 | 8.000 | 16.000 | 32.000 | 64.000 | | |
| JUL 27 | 11:30 | 0.018 H | 6 | 7 | 10 | 22 | 50 | 66 | 71 | 73 | 74 | 75 | 78 | 83 | 97 | 100 | SH | SCOOP |

H - DAILY MEAN DISCHARGE

NUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1983

| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **JAN** | | | | |
| 1 | | 3.36 | 69 | 25.8 |
| 2 | | 3.13 | 47 | 12.7 |
| 3 | | 2.34 B | 26 | 5.26 |
| 4 | 0.1 | 1.83 | 24 S | 3.38 |
| 5 | | 2.07 | 92 | 16.5 |
| 6 | | 2.76 | 69 | 16.5 |
| 7 | | 3.67 | 29 | 5.44 |
| 8 | | 2.52 B | 23 | 5.01 |
| 9 | | 2.36 B | 21 | 4.28 |
| 10 | | 3.08 | 176 | 47.5 |
| 11 | | 12.7 | 882 | 888 |
| 12 | 3.0 | 7.07 | 377 S | 230 |
| 13 | | 3.27 | 115 | 32.5 |
| 14 | | 3.61 | 25 | 7.80 |
| 15 | | 2.98 | 21 | 5.43 |
| 15 | | 2.08 | 22 | 3.97 |
| 17 | | 1.70 B | 22 | 3.23 |
| 18 | | 1.40 B | 22 | 2.68 |
| 19 | | 1.35 B | 26 | 3.03 |
| 20 | | 1.30 B | 27 | 3.03 |
| 21 | | 1.26 B | 23 | 2.54 |
| 22 | | 1.26 B | 21 | 2.29 |
| 23 | | 1.24 B | 20 | 2.16 |
| 24 | | 1.50 B | 20 | 2.89 |
| 25 | | 2.00 B | 30 | 5.18 |
| 26 | | 1.70 B | 88 | 9.98 |
| 27 | | 1.60 B | 41 | 5.67 |
| 28 | | 1.62 B | 18 | 2.36 |
| 29 | | 1.45 B | 22 | 2.76 |
| 30 | | 1.40 B | 22 | 2.66 |
| 31 | | 3.60 B | 26 | 7.88 |
| TOTAL | | 81.75 | | 1 448.74 |
| MEAN | | 2.64 | | 46.7 |

| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **FEB** | | | | |
| | | 2.80 B | 25 | 6.05 |
| | | 5.00 B | 126 | 55.3 |
| | | 16.0 B | 1 030 | 1 420 |
| | | 11.6 | 427 | 428 |
| | | 4.31 | 154 | 57.3 |
| | | 3.30 | 85 | 18.5 |
| | | 2.90 B | 84 | 18.0 |
| | 0.1 | 2.36 B | 62 S | 12.2 |
| | | 1.70 B | 83 | 9.26 |
| | | 1.40 B | 58 | 7.02 |
| | | 1.35 B | 59 | 6.88 |
| | | 1.30 B | 80 | 8.74 |
| | | 1.28 B | 84 | 7.08 |
| | | 1.26 B | 87 | 7.29 |
| | | 2.15 | 84 | 11.8 |
| | | 2.66 | 72 | 18.5 |
| | | 2.66 | 87 | 21.6 |
| | | 2.63 | 130 | 30.4 |
| | | 2.98 | 135 | 32.3 |
| | | 2.66 | 139 | 34.6 |
| | 2.0 | 2.66 | 292 S | 74.7 |
| | | 3.40 | 422 | 124 |
| | | 4.61 | 361 | 162 |
| | | 4.66 | 230 | 91.0 |
| | | 3.12 | 115 | 31.0 |
| | | 2.19 | 73 | 13.8 |
| | | 2.12 B | 65 | 12.1 |
| | | 2.10 B | 64 | 11.6 |
| **MAR** | | | | |
| | | 2.10 B | 84 | 11.6 |
| | 4.0 | 2.26 | 82 S | 12.2 |
| | | 2.43 | 97 | 20.4 |
| | | 3.61 | 430 | 134 |
| | | 5.26 | 845 | 367 |
| | | 4.46 | 386 | 149 |
| | 5.5 | 4.66 | 403 S | 163 |
| | | 5.37 | 466 | 226 |
| | | 5.61 | 592 | 287 |
| | | 5.77 | 525 | 262 |
| | | 4.56 | 324 | 128 |
| | | 3.36 | 177 | 51.7 |
| | | 2.83 | 87 | 22.0 |
| | 5.0 | 2.74 | 82 S | 12.3 |
| | | 2.69 | 47 | 10.9 |
| | | 2.67 | 42 | 9.69 |
| | | 2.61 | 37 | 8.36 |
| | | 2.67 | 49 | 11.3 |
| | | 8.42 | 536 | 287 |
| | | 5.65 | 554 | 424 |
| | | 5.62 | 151 | 73.3 |
| | | 3.66 | 85 | 30.0 |
| | | 3.42 | 84 | 24.8 |
| | | 2.83 | 76 | 18.6 |
| | | 2.83 | 72 | 17.6 |
| | | 2.65 | 69 | 17.0 |
| | | 3.28 | 74 | 21.0 |
| | | 3.86 | 157 | 48.6 |
| | | 5.02 | 163 | 70.7 |
| | | 3.91 | 89 | 30.1 |
| | | 3.84 | 66 | 20.6 |

| DAY | TEMP. (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **TOTAL** | | 122.02 | | 2 889.83 |
| **MEAN** | | 3.94 | | 92.6 |

| DAY | TEMP (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **APR** | | | | |
| 1 | | 3.73 | 88 | 18.0 |
| 2 | | 3.81 | 86 | 22.3 |
| 3 | | 5.38 | 302 | 84.1 |
| 4 | | 7.32 | 282 | 178 |
| 5 | | 6.16 | 133 | 70.8 |
| 6 | | 5.21 | 90 | 40.5 |
| 7 | | 4.87 | 143 | 81.4 |
| 8 | 4.0 | 5.76 | 114 S | 56.8 |
| 9 | | 4.62 | 87 | 23.6 |
| 10 | | 9.49 | 478 | 392 |
| 11 | | 9.13 | 340 | 288 |
| 12 | 8.0 | 8.18 | 144 S | 76.9 |
| 13 | | 4.63 | 78 | 32.5 |
| 14 | | 5.01 | 201 | 87.0 |
| 15 | | 8.76 | 366 | 281 |
| 16 | | 6.26 | 120 | 84.9 |
| 17 | | 4.76 | 76 | 31.2 |
| 18 | | 3.67 | 77 | 25.7 |
| 19 | | 3.36 | 86 | 19.2 |
| 20 | | 3.16 | 87 | 16.6 |
| 21 | | 3.03 | 84 | 14.1 |
| 22 | | 2.89 | 48 | 12.0 |
| 23 | | 2.86 | 47 | 10.8 |
| 24 | | 2.81 | 48 | 10.1 |
| 25 | | 2.49 | 38 | 8.18 |
| 26 | | 2.42 | 41 | 8.87 |
| 27 | | 2.43 | 81 | 10.7 |
| 28 | | 2.61 | 127 | 27.8 |
| 29 | | 3.31 | 533 | 152 |
| 30 | | 4.06 | 647 | 228 |
| 31 | | | | |
| TOTAL | | 140.28 | | 2 348.85 |
| MEAN | | 4.68 | | 78.3 |

| DAY | TEMP (°C) | DAILY DISCHARGE (m³/s) | MEAN CONCENTRATION (mg/L) | DAILY LOAD (t) |
|---|---|---|---|---|
| **MAY** | | | | |
| | | 6.28 | 718 | 391 |
| | | 8.63 | 1 200 | 998 |
| | 10.0 | 14.6 | 1 070 S | 1 350 |
| | 10.0 | 9.18 | 281 S | 223 |
| | | 6.16 | 184 | 82.0 |
| | | 4.46 | 111 | 42.8 |
| | | 3.82 | 94 | 28.4 |
| | | 6.42 | 274 | 136 |
| | | 6.05 | 158 | 82.8 |
| | | 4.62 | 87 | 34.0 |
| | | 3.46 | 80 | 17.8 |
| | | 3.10 | 63 | 14.2 |
| | | 2.61 | 46 | 11.2 |
| | | 2.71 | 45 | 10.8 |
| | | 3.27 | 88 | 18.5 |
| | | 2.81 | 86 | 14.1 |
| | | 2.59 | 41 | 8.17 |
| | | 3.46 | 31 | 8.56 |
| | | 2.84 | 101 | 24.6 |
| | | 7.43 | 482 | 316 |
| | | 8.78 | 181 | 75.5 |
| | | 4.46 | 76 | 28.2 |
| | | 4.56 | 86 | 37.7 |
| | | 3.86 | 89 | 19.7 |
| | | 3.16 | 26 | 7.84 |
| | | 2.84 | 18 | 4.57 |
| | 10.0 | 2.61 | 14 S | 3.40 |
| | | 2.58 | 14 | 3.12 |
| | | 2.61 | 26 | 6.84 |
| | | 3.47 | 127 | 38.1 |
| | | 3.36 | 81 | 22.6 |
| **JUN** | | | | |
| | | 2.66 | 87 | 13.2 |
| | | 2.85 | 84 | 12.4 |
| | | 2.83 | 80 S | 10.9 |
| | | 2.42 | 47 | 8.83 |
| | | 2.46 | 46 | 9.85 |
| | | 2.66 | 51 | 12.6 |
| | | 3.62 | 102 | 31.9 |
| | | 2.83 | 62 | 13.2 |
| | | 2.50 | 39 | 8.42 |
| | | 2.20 | 36 | 6.84 |
| | | 2.04 | 33 | 5.82 |
| | | 1.81 | 32 | 5.28 |
| | | 1.75 | 31 | 4.69 |
| | 23.0 | 1.64 | 31 S | 4.38 |
| | | 1.66 | 30 | 4.10 |
| | | 1.66 | 33 | 4.42 |
| | | 1.60 | 33 | 4.58 |
| | | 1.61 | 28 | 3.38 |
| | | 1.65 | 27 | 3.38 |
| | | 1.46 | 26 | 3.36 |
| | | 1.36 | 28 | 3.06 |
| | | 1.37 | 27 | 3.20 |
| | | 1.29 | 26 S | 2.90 |
| | | 1.18 | 26 | 2.85 |
| | | 1.16 | 26 | 2.61 |
| | | 1.31 | 25 | 2.81 |
| | | 1.18 | 26 | 2.85 |
| | | 1.24 | 31 | 3.32 |
| | | 1.35 | 38 | 4.65 |
| | | 1.35 | 34 | 3.87 |
| TOTAL | | 66.03 | | 203.66 |
| MEAN | | 1.87 | | 6.79 |

ONTARIO

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC026

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.35 | 30 | 3.80 | | 2.42 | 67 | 14.0 | | 1.84 | 98 | 15.8 | 1 |
| 2 | | 1.34 | 27 | 3.13 | | 2.04 | 48 | 8.46 | | 1.38 | 82 | 7.45 | 2 |
| 3 | | 1.35 | 28 | 3.03 | | 1.54 | 39 | 5.19 | | 1.15 | 50 | 4.97 | 3 |
| 4 | | 1.41 | 31 | 3.78 | | 1.33 | 38 | 4.37 | | 1.03 | 43 | 3.83 | 4 |
| 5 | | 1.67 | 85 | 9.38 | | 1.28 | 40 | 4.48 | | 0.882 | 38 | 3.22 | 5 |
| 6 | | 1.88 | 75 | 10.8 | | 1.34 | 44 | 5.08 | | 0.880 | 32 | 2.74 | 6 |
| 7 | | 1.38 | 53 | 6.37 | | 1.19 | 37 | 3.80 | | 1.18 | 39 | 3.91 | 7 |
| 8 | 21.0 | 1.26 | 48 S | 5.23 | | 1.07 | 38 | 3.33 | | 1.08 | 37 | 3.46 | 8 |
| 9 | | 1.17 | 47 | 4.76 | 24.0 | 1.02 | 38 S | 3.17 | | 1.02 | 38 | 3.17 | 9 |
| 10 | | 1.15 | 47 | 4.87 | | 0.980 | 35 | 2.96 | | 1.02 | 35 | 3.44 | 10 |
| 11 | | 1.13 | 55 | 5.42 | | 1.16 | 41 | 4.11 | | 0.880 | 34 | 2.88 | 11 |
| 12 | 28.0 | 1.08 | 82 S | 5.86 | | 1.38 | 44 | 5.28 | | 0.823 | 32 | 2.28 | 12 |
| 13 | | 1.08 | 81 | 5.88 | | 1.32 | 38 | 4.45 | | 0.814 | 30 | 2.11 | 13 |
| 14 | | 1.02 | 57 | 5.02 | | 1.18 | 35 | 3.48 | 18.0 | 0.838 | 30 S | 2.17 | 14 |
| 15 | | 0.871 | 52 | 4.36 | | 1.00 | 35 | 3.02 | | 0.880 | 35 | 2.88 | 15 |
| 16 | | 0.848 | 49 | 4.01 | | 0.880 | 34 | 2.82 | | 1.15 | 46 | 4.77 | 16 |
| 17 | | 0.848 | 47 | 3.84 | | 0.848 | 33 | 2.70 | | 2.02 | 132 | 23.0 | 17 |
| 18 | | 0.838 | 46 | 3.73 | | 0.881 | 34 | 2.82 | | 1.87 | 51 | 8.88 | 18 |
| 19 | | 0.806 | 44 | 3.44 | | 1.08 | 87 | 6.25 | | 2.10 | 48 | 8.36 | 19 |
| 20 | | 0.863 | 43 | 3.17 | | 1.17 | 81 | 8.19 | | 2.04 | 45 | 8.11 | 20 |
| 21 | | 0.868 | 45 | 3.48 | | 0.885 | 70 | 5.44 | | 1.89 | 44 | 7.57 | 21 |
| 22 | | 0.833 | 51 | 4.11 | | 1.48 | 83 | 11.8 | | 2.52 | 125 | 27.2 | 22 |
| 23 | | 0.861 | 44 | 3.36 | | 2.09 | 134 | 24.2 | | 1.77 | 76 | 11.9 | 23 |
| 24 | | 0.843 | 45 | 3.75 | | 1.89 | 57 | 7.83 | | 1.47 | 83 | 8.73 | 24 |
| 25 | | 0.851 | 40 | 2.84 | | 1.35 | 40 | 4.32 | | 1.40 | 44 | 8.32 | 25 |
| 26 | | 0.782 | 34 | 2.33 | | 0.889 | 35 | 3.01 | | 1.35 | 38 | 4.43 | 26 |
| 27 | | 0.765 | 31 | 2.08 | | 0.887 | 33 | 2.81 | 14.0 | 1.28 | 33 S | 3.59 | 27 |
| 28 | | 0.782 | 32 | 2.16 | | 0.889 | 35 | 3.25 | 14.0 | 1.18 | 29 S | 2.98 | 28 |
| 29 | | 0.854 | 33 | 2.43 | | 1.53 | 83 | 11.0 | | 1.16 | 28 | 2.81 | 29 |
| 30 | | 0.834 | 39 | 3.15 | | 1.33 | 51 | 5.86 | | 1.21 | 33 | 3.46 | 30 |
| 31 | | 2.62 | 115 | 26.0 | | 2.23 | 120 | 24.8 | | | | | 31 |
| TOTAL | | 34.795 | | 153.82 | | 40.787 | | 202.87 | | 40.807 | | 192.81 | TOTAL |
| MEAN | | 1.12 | | 4.96 | | 1.31 | | 6.54 | | 1.36 | | 6.42 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.12 | 27 | 2.81 | | 1.44 | 30 | 3.48 | | 2.13 B | 37 | 6.81 | 1 |
| 2 | | 1.13 | 27 | 2.84 | | 1.55 | 24 | 3.23 | | 1.85 B | 30 | 4.80 | 2 |
| 3 | | 1.15 | 27 | 2.88 | | 1.89 | 29 | 4.74 | | 1.78 B | 28 | 3.78 | 3 |
| 4 | | 1.24 | 35 | 2.88 | 4.0 | 1.86 | 22 S | 3.54 | | 1.70 B | 21 | 3.08 | 4 |
| 5 | | 1.26 | 24 | 2.69 | | 1.81 | 21 | 3.28 | | 1.85 B | 20 | 2.85 | 5 |
| 6 | | 1.26 | 33 | 2.70 | | 1.88 | 31 | 5.04 | | 2.00 B | 28 | 4.48 | 6 |
| 7 | | 1.24 | 32 | 2.55 | | 1.81 | 36 | 5.94 | | 1.75 B | 20 | 3.02 | 7 |
| 8 | | 1.26 | 28 | 2.84 | 7.0 | 1.76 | 28 S | 4.23 | | 1.61 B | 14 | 1.85 | 8 |
| 9 | | 1.41 | 28 | 3.17 | | 1.63 | 21 | 2.96 | | 1.58 B | 15 | 2.08 | 9 |
| 10 | | 1.46 | 26 | 3.26 | | 1.56 | 19 | 2.59 | | 1.55 B | 14 | 1.87 | 10 |
| 11 | | 1.36 | 33 | 2.86 | | 2.42 | 110 | 23.0 | | 1.60 B | 12 | 1.55 | 11 |
| 12 | | 1.82 | 66 | 8.29 | | 3.62 | 107 | 33.5 | | 2.40 B | 33 | 6.84 | 12 |
| 13 | | 3.05 | 150 | 39.5 | | 2.54 | 46 | 10.5 | | 3.50 B | 87 | 29.3 | 13 |
| 14 | | 3.24 | 106 | 29.7 | | 2.05 | 33 | 6.05 | | 2.80 B | 38 | 9.18 | 14 |
| 15 | | 2.38 | 36 | 7.65 | 5.0 | 1.69 | 11 S | 1.80 | | 2.20 B | 23 | 4.37 | 15 |
| 16 | | 1.67 | 22 | 3.55 | | 3.37 | 128 | 37.3 | | 2.00 B | 21 | 3.63 | 16 |
| 17 | | 1.66 | 17 | 2.44 | 4.0 | 4.01 | 132 S | 45.7 | | 1.80 B | 17 | 2.35 | 17 |
| 18 | | 1.65 | 14 | 1.87 | | 2.97 | 67 | 14.6 | | 1.20 B | 15 | 1.88 | 18 |
| 19 | | 1.46 | 14 | 1.76 | | 2.46 | 25 | 5.31 | | 0.906 B | 12 | 0.94 | 19 |
| 20 | 8.0 | 1.33 | 15 S | 1.72 | | 2.36 | 19 | 3.88 | | 1.40 B | 30 | 3.63 | 20 |
| 21 | | 1.33 | 18 | 2.18 | | 3.41 | 102 | 30.1 | | 3.00 B | 89 | 17.8 | 21 |
| 22 | | 1.38 | 16 | 1.98 | | 3.40 | 66 | 19.4 | | 2.70 B | 43 | 10.0 | 22 |
| 23 | | 1.80 | 56 | 8.71 | | 2.58 | 32 | 7.18 | | 2.40 B | 34 | 7.05 | 23 |
| 24 | | 3.35 | 150 | 42.5 | | 2.53 | 25 | 5.46 | | 1.80 B | 30 | 4.83 | 24 |
| 25 | | 2.50 | 59 | 12.7 | | 2.47 | 23 | 4.81 | | 1.72 B | 29 | 4.31 | 25 |
| 26 | | 2.03 | 39 | 6.84 | | 2.08 | 21 | 3.76 | | 1.82 B | 37 | 3.76 | 26 |
| 27 | | 1.82 | 33 | 5.19 | | 1.88 | 18 | 3.08 | | 1.80 B | 25 | 3.48 | 27 |
| 28 | | 1.67 | 26 | 4.04 | | 1.84 | 18 | 3.18 | | 1.61 B | 28 | 3.88 | 28 |
| 29 | | 1.86 | 26 | 3.48 | | 2.40 B | 67 | 13.8 | | 1.52 B | 44 | 6.20 | 29 |
| 30 | | 1.49 | 33 | 3.88 | | 2.30 B | 65 | 11.7 | | 1.67 B | 65 | 9.38 | 30 |
| 31 | | 1.47 | 22 | 2.78 | | | | | | 1.68 B | 57 | 8.18 | 31 |
| TOTAL | | 52.84 | | 231.55 | | 70.08 | | 320.33 | | 58.985 | | 174.15 | TOTAL |
| MEAN | | 1.70 | | 7.15 | | 2.34 | | 10.7 | | 1.88 | | 5.62 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 14 904.84 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 184 | |
| MAXIMUM DAILY | 1 200 | ON MAY 02 |
| MINIMUM DAILY | 11 | ON NOV 16 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 40.8 | |
| MAXIMUM DAILY | 1 430 | ON FEB 03 |
| MINIMUM DAILY | 0.84 | ON DEC 19 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 48 39 N
LONG 79 37 38 W
DRAINAGE AREA 303 km²
NATURAL FLOW

B - ICE CONDITIONS

B - SAMPLE(S) COLLECTED THIS DAY

NUMBER RIVER AT ELORP MILLS - STATION NO. 02HC025

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULAT N TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| MAY 03 | 10:50 | 18.0 | 10.0 | 1 040 R | 6 | 11 | 27 | 46 | 71 | 86 | 91 | 95 | 97 | 98 | | BNW |

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ONTARIO

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.33 | 7 | 0.80 | | 0.888 | 5 S | 0.38 | | 1.12 | 7 S | 0.88 | 1 |
| 2 | | 1.28 | 7 | 0.78 | | 1.57 | 19 S | 2.58 | | 1.13 | 8 | 0.89 | 2 |
| 3 | | 1.14 | 7 | 0.69 | | 3.62 | 25 S | 8.24 | | 1.12 | 8 S | 0.88 | 3 |
| 4 | | 1.01 | 11 | 0.88 | | 2.67 | 10 | 2.31 | | 1.20 | 8 S | 0.82 | 4 |
| 5 | 2.0 | 0.979 | 11 S | 0.83 | | 1.90 | 5 S | 0.82 | | 1.30 | 8 S | 0.88 | 5 |
| 6 | | 0.868 | 8 | 0.88 | | 1.61 | 4 S | 0.82 | | 1.31 | 8 S | 0.91 | 6 |
| 7 | | 1.02 | 8 | 0.78 | | 1.28 | 5 | 0.58 | 8.5 | 1.33 | 8 S | 1.03 | 7 |
| 8 | | 1.04 | 10 | 0.80 | | 1.14 | 5 S | 0.49 | 10.0 | 1.38 | 11 S | 1.31 | 8 |
| 9 | | 0.982 | 8 | 0.74 | | 1.04 8 | 5 | 0.45 | | 1.30 | 8 | 0.80 | 9 |
| 10 | | 1.34 | 13 | 1.61 | | 0.920 8 | 5 S | 0.48 | 8.0 | 1.13 | 8 S | 0.69 | 10 |
| 11 | 2.0 | 2.79 | 25 S | 6.27 | | 0.850 8 | 7 | 0.61 | | 0.888 | 8 | 0.50 | 11 |
| 12 | 1.0 | 2.21 | 14 S | 2.87 | | 0.780 8 | 7 | 0.48 | | 0.855 | 8 | 0.44 | 12 |
| 13 | | 1.58 | 9 | 1.23 | | 0.730 8 | 6 | 0.38 | 8.0 | 0.815 | 8 S | 0.62 | 13 |
| 14 | | 1.33 | 7 | 0.80 | | 0.700 8 | 6 | 0.38 | 8.0 | 0.783 | 7 S | 0.48 | 14 |
| 15 | 1.0 | 1.22 | 8 S | 0.83 | | 0.882 | 8 S | 0.38 | | 0.788 | 7 | 0.48 | 15 |
| 16 | | 1.05 8 | 8 | 0.84 | | 0.789 | 8 | 0.39 | 8.0 | 0.712 | 7 S | 0.43 | 16 |
| 17 | | 0.940 8 | 8 | 0.68 | 0.5 | 1.15 | 12 S | 1.18 | | 0.883 | 7 | 0.42 | 17 |
| 18 | | 0.900 8 | 8 | 0.39 | | 1.33 | 9 | 1.03 | 9.0 | 0.884 | 7 S | 0.42 | 18 |
| 19 | 1.0 | 0.880 8 | 8 S | 0.37 | | 1.39 | 9 | 1.04 | | 0.918 | 12 | 0.86 | 19 |
| 20 | | 0.830 8 | 7 | 0.50 | | 1.85 | 11 S | 1.78 | | 1.18 | 14 | 1.43 | 20 |
| 21 | | 0.810 8 | 7 | 0.48 | | 2.35 | 11 | 2.14 | | 0.887 | 10 | 0.83 | 21 |
| 22 | | 0.784 | 8 | 0.34 | | 1.88 | 9 S | 1.52 | | 0.850 8 | 9 | 0.88 | 22 |
| 23 | | 0.760 | 8 | 0.34 | | 2.81 | 18 S | 4.37 | | 0.800 8 | 9 | 0.82 | 23 |
| 24 | | 0.880 | 7 | 0.53 | | 2.14 | 9 | 1.66 | | 0.780 8 | 9 | 0.88 | 24 |
| 25 | | 0.946 | 8 | 0.85 | | 1.61 | 8 | 0.78 | | 0.710 8 | 9 | 0.86 | 25 |
| 26 | | 0.920 8 | 7 | 0.58 | | 1.22 8 | 6 S | 0.63 | | 0.890 8 | 9 | 0.84 | 26 |
| 27 | | 0.880 8 | 8 S | 0.48 | | 1.07 | 8 | 0.48 | | 0.774 | 11 | 0.74 | 27 |
| 28 | | 0.840 8 | 8 | 0.44 | | 1.08 | 8 | 0.48 | 6.0 | 1.48 | 26 S | 3.32 | 28 |
| 29 | | 0.790 | 8 | 0.34 | | | | | | 1.55 | 15 | 2.01 | 29 |
| 30 | | 0.807 | 8 S | 0.35 | | | | | 6.0 | 1.34 | 9 S | 1.04 | 30 |
| 31 | | 0.893 | 8 | 0.48 | | | | | 6.0 | 1.52 | 17 S | 2.23 | 31 |
| TOTAL | | 34.070 | | 27.59 | | 40.898 | | 37.28 | | 32.135 | | 25.85 | TOTAL |
| MEAN | | 1.10 | | 0.89 | | 1.46 | | 1.33 | | 1.04 | | 0.86 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.84 | 14 | 1.08 | 8.0 | 1.98 | 20 S | 3.42 | | 1.01 | 7 | 0.61 | 1 |
| 2 | | 1.48 | 10 | 1.28 | 15.0 | 2.91 | 31 S | 7.78 | | 0.820 | 8 | 0.57 | 2 |
| 3 | | 1.62 | 9 | 1.18 | | 2.34 | 17 | 3.44 | 18.0 | 0.714 | 8 S | 0.49 | 3 |
| 4 | | 1.84 | 13 | 1.64 | 11.5 | 1.84 | 10 S | 1.42 | 14.5 | 0.752 | 13 S | 0.84 | 4 |
| 5 | | 1.31 | 11 | 1.25 | | 1.29 | 9 | 1.00 | 18.0 | 0.770 | 16 S | 1.20 | 5 |
| 6 | | | | | | | | 0.82 | 12.0 | 0.883 | 12 S | 0.89 | 6 |
| 7 | 7.0 | 1.13 | 11 S | 1.07 | | 1.08 | 8 | 0.77 | | 0.880 | 12 | 0.81 | 7 |
| 8 | 7.0 | 1.32 | 15 S | 1.71 | | 0.989 | 8 | 1.08 | 12.0 | 0.819 | 17 S | 0.78 | 8 |
| 9 | | 1.33 | 10 | 1.15 | 8.0 | 1.25 | 10 S | 0.86 | 18.0 | 0.498 | 28 S | 1.25 | 9 |
| 10 | 7.0 | 1.15 | 14 | 1.38 | | 1.10 | 9 | 0.72 | | 0.483 | 22 | 0.92 | 10 |
| | | 1.84 | 48 S | 8.05 | | 0.827 | 8 | | | | | | |
| 11 | 9.0 | 1.77 | 18 S | 2.75 | | 0.802 | 8 | 0.55 | | 0.445 | 18 | 0.82 | 11 |
| 12 | 10.0 | 1.34 | 10 S | 1.18 | | 0.712 | 8 | 0.49 | | 0.424 | 18 | 0.85 | 12 |
| 13 | 7.3 | 1.13 | 8 S | 0.88 | | 0.688 | 8 | 0.46 | | 0.383 | 18 | 0.83 | 13 |
| 14 | 9.0 | 1.88 | 48 S | 8.00 | | 0.834 | 8 | 0.44 | | 0.358 | 18 | 0.48 | 14 |
| 15 | 8.0 | 2.42 | 35 S | 7.32 | | 0.850 | 8 | 0.48 | 23.0 | 0.338 | 16 S | 0.47 | 15 |
| 16 | 8.0 | 1.75 | 13 S | 1.97 | | 0.820 | 8 | 0.43 | | 0.325 | 16 | 0.45 | 16 |
| 17 | | 1.34 | 8 | 0.93 | | 0.661 | 8 | 0.39 | | 0.300 | 16 | 0.41 | 17 |
| 18 | | 1.18 | 8 | 0.80 | 15.0 | 0.538 | 8 S | 0.37 | | 0.311 | 16 | 0.43 | 18 |
| 19 | | 1.08 | 7 | 0.85 | 12.0 | 0.718 | 8 S | 0.55 | | 0.285 | 16 | 0.39 | 19 |
| 20 | 8.0 | 0.871 | 7 S | 0.58 | 12.0 | 1.36 | 14 S | 1.87 | | 0.276 | 16 | 0.38 | 20 |
| 21 | 7.0 | 0.888 | 8 S | 0.61 | | 1.14 | 8 | 0.89 | | 0.283 | 16 | 0.35 | 21 |
| 22 | | 0.833 | 8 | 0.55 | 15.0 | 0.887 | 8 S | 0.81 | | 0.247 | 17 | 0.38 | 22 |
| 23 | 12.0 | 0.778 | 7 S | 0.47 | | 0.888 | 8 | 0.80 | 22.0 | 0.232 | 26 S | 0.52 | 23 |
| 24 | | 0.732 | 8 | 0.38 | | 0.831 | 8 | 0.57 | | 0.220 | 34 | 0.46 | 24 |
| 25 | | 0.883 | 8 | 0.30 | | 0.792 | 8 | 0.85 | | 0.218 | 18 | 0.33 | 25 |
| 26 | 13.0 | 0.852 | 8 S | 0.28 | | 0.852 | 11 | 0.81 | | 0.218 | 16 | 0.28 | 26 |
| 27 | 18.0 | 0.821 | 3 S | 0.15 | | 0.771 | 10 | 0.67 | 18.0 | 0.251 | 13 S | 0.28 | 27 |
| 28 | 8.0 | 0.838 | 2 S | 0.11 | | 0.878 | 9 | 0.53 | | 0.350 | 18 | 0.45 | 28 |
| 29 | | 0.719 | 2 | 0.12 | | 0.888 | 10 | 0.78 | | 0.291 | 14 | 0.35 | 29 |
| 30 | 8.8 | 1.34 | 22 S | 2.85 | | 1.61 | 25 | 3.28 | | 0.285 | 14 | 0.32 | 30 |
| 31 | | | | | 13.0 | 1.32 | 10 S | 1.14 | | | | | 31 |
| TOTAL | | 37.192 | | 51.58 | | 33.285 | | 37.51 | | 12.801 | | 10.38 | TOTAL |
| MEAN | | 1.24 | | 1.72 | | 1.07 | | 1.21 | | 0.427 | | 0.86 | MEAN |

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.286 | 14 | 0.31 | 23.0 | 0.186 | 81 S | 0.82 | | 0.246 | 32 | 0.69 | 1 |
| 2 | | 0.243 | 14 | 0.29 | | 0.142 | 81 | 0.76 | | 0.214 | 28 | 0.52 | 2 |
| 3 | | 0.393 | 20 | 0.68 | | 0.139 | 90 | 0.72 | | 0.193 | 27 | 0.45 | 3 |
| 4 | | 0.386 | 15 | 0.51 | 22.0 | 0.221 | 84 S | 1.22 | | 0.179 | 28 | 0.40 | 4 |
| 5 | 12.0 | 0.318 | 14 S | 0.38 | | 0.197 | 56 | 0.98 | | 0.188 | 25 | 0.38 | 5 |
| 6 | | 0.295 | 14 | 0.36 | | 0.189 | 58 | 0.85 | | 0.188 | 24 | 0.39 | 6 |
| 7 | | 0.259 | 14 | 0.31 | | 0.186 | 58 | 0.88 | | 0.189 | 24 | 0.41 | 7 |
| 8 | | 0.237 | 14 | 0.28 | | 0.185 | 60 | 0.80 | | 0.177 | 24 | 0.37 | 8 |
| 9 | | 0.223 | 14 | 0.27 | | 0.148 | 61 | 0.78 | 20.0 | 0.170 | 23 S | 0.34 | 9 |
| 10 | | 0.203 | 14 | 0.25 | | 0.150 | 64 | 0.83 | 21.0 | 0.187 | 38 S | 0.65 | 10 |
| 11 | | 0.198 | 14 | 0.24 | | 0.486 | 75 | 3.15 | | 0.183 | 34 | 0.48 | 11 |
| 12 | | 0.185 | 16 | 0.27 | | 0.475 | 74 | 3.04 | | 0.185 | 30 | 0.40 | 12 |
| 13 | | 0.176 | 16 S | 0.25 | 19.0 | 0.288 | 85 S | 1.48 | | 0.152 | 28 | 0.37 | 13 |
| 14 | | 0.173 | 16 | 0.27 | | 0.208 | 84 | 1.15 | | 0.188 | 26 | 0.38 | 14 |
| 15 | | 0.170 | 25 | 0.37 | 19.0 | 0.185 | 88 S | 1.10 | | 0.185 | 23 | 0.33 | 15 |
| 16 | | 0.165 | 60 | 0.87 | | 0.188 | 84 | 1.08 | 14.0 | 0.238 | 20 S | 0.41 | 16 |
| 17 | | 0.173 | 61 | 0.91 | | 0.178 | 83 | 0.87 | 16.0 | 0.380 | 18 S | 0.84 | 17 |
| 18 | 27.0 | 0.173 | 72 S | 1.08 | | 0.187 | 82 | 0.86 | 17.0 | 0.405 | 14 S | 0.48 | 18 |
| 19 | | 0.188 | 81 | 0.87 | | 0.188 | 81 | 0.82 | | 0.410 | 14 | 0.50 | 19 |
| 20 | | 0.183 | 44 | 0.82 | | 0.144 | 69 | 0.73 | | 0.309 | 13 | 0.35 | 20 |
| 21 | 25.0 | 0.188 | 38 S | 0.62 | | 0.144 | 69 | 0.73 | | 0.814 | 14 | 0.98 | 21 |
| 22 | | 0.170 | 37 | 0.54 | | 0.548 | 71 | 3.35 | 12.5 | 0.828 | 19 S | 1.30 | 22 |
| 23 | | 0.182 | 41 | 0.67 | | 0.488 | 81 | 2.47 | 12.5 | 2.13 | 51 S | 9.38 | 23 |
| 24 | | 0.184 | 43 | 0.81 | | 0.280 | 69 | 1.35 | 13.0 | 1.80 | 28 S | 4.10 | 24 |
| 25 | | 0.180 | 45 | 0.83 | | 0.217 | 81 | 0.95 | 12.0 | 1.09 | 19 S | 1.61 | 25 |
| 26 | | 0.168 | 47 | 0.81 | | 0.188 | 47 | 0.80 | | 0.898 | 19 | 1.14 | 26 |
| 27 | | 0.168 | 48 | 0.83 | | 0.190 | 43 | 0.71 | | 0.518 | 27 | 1.21 | 27 |
| 28 | | 0.168 | 51 | 0.84 | | 0.185 | 39 | 0.62 | | 0.448 | 37 | 1.44 | 28 |
| 29 | | 0.165 | 53 | 0.71 | | 0.181 | 35 | 0.55 | | 0.405 | 47 | 1.84 | 29 |
| 30 | | 0.151 | 55 | 0.72 | 20.0 | 0.170 | 37 S | 0.88 | 11.0 | 0.361 | 59 S | 1.84 | 30 |
| 31 | | 0.149 | 58 | 0.75 | | 0.385 | 43 | 1.32 | | | | | 31 |
| TOTAL | | 8.282 | | 16.02 | | 7.137 | | 36.88 | | 13.748 | | 33.18 | TOTAL |
| MEAN | | 0.203 | | 0.52 | | 0.230 | | 1.18 | | 0.458 | | 1.11 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.323 | 54 | 1.51 | | 0.493 | 12 | 0.51 | | 1.05 | 4 | 0.36 | 1 |
| 2 | | 0.305 | 36 | 0.95 | 11.0 | 0.856 | 14 S | 1.04 | | 0.987 | 3 | 0.26 | 2 |
| 3 | | 0.328 | 22 | 0.62 | | 1.09 | 21 | 1.98 | | 0.923 | 3 | 0.24 | 3 |
| 4 | 11.0 | 0.681 | 26 S | 1.53 | | 0.985 | 21 | 1.78 | | 0.885 | 3 | 0.23 | 4 |
| 5 | 14.0 | 0.728 | 32 S | 2.01 | | 0.819 | 19 | 1.34 | | 0.908 | 3 | 0.24 | 5 |
| 6 | | 0.802 | 24 | 1.25 | | 0.712 | 17 | 1.05 | 2.0 | 1.03 | 3 S | 0.27 | 6 |
| 7 | | 0.475 | 22 | 0.90 | 8.5 | 0.851 | 15 S | 0.90 | | 1.00 | 3 | 0.26 | 7 |
| 8 | 12.0 | 0.781 | 30 S | 2.02 | 8.0 | 0.811 | 8 S | 0.33 | | 1.11 | 3 | 0.28 | 8 |
| 9 | | 0.934 | 27 | 2.18 | | 0.502 | 8 | 0.34 | | 1.03 | 3 | 0.27 | 9 |
| 10 | | 0.887 | 23 | 1.33 | | 0.518 | 8 | 0.32 | 1.0 | 0.981 | 3 S | 0.25 | 10 |
| 11 | | 0.583 | 20 | 0.87 | | 0.547 | 8 | 0.38 | | 0.844 | 3 | 0.24 | 11 |
| 12 | 12.0 | 0.503 | 18 S | 0.83 | | 0.590 | 7 | 0.35 | | 3.80 | 20 | 8.22 | 12 |
| 13 | 14.0 | 0.882 | 30 S | 1.14 | 2.0 | 0.571 | 3 S | 0.15 | 1.5 | 4.81 | 20 S | 8.31 | 13 |
| 14 | | 1.38 | 38 | 4.85 | | 0.556 | 3 | 0.14 | | 3.23 | 10 | 2.79 | 14 |
| 15 | | 1.11 | 24 | 2.30 | | 0.811 | 5 | 0.28 | | 2.72 | 7 | 1.84 | 15 |
| 16 | | 0.850 | 20 | 1.47 | | 1.18 | 12 | 1.22 | | 2.17 | 3 | 0.56 | 16 |
| 17 | | 0.894 | 18 | 1.08 | | 1.41 | 8 | 0.97 | 0.5 | 1.70 | 3 S | 0.29 | 17 |
| 18 | | 0.584 | 18 | 0.81 | | 1.12 | 3 | 0.29 | | 1.40 B | 3 | 0.36 | 18 |
| 19 | 8.5 | 0.519 | 15 S | 0.67 | 4.0 | 1.11 | 3 S | 0.28 | | 1.30 B | 5 | 0.58 | 19 |
| 20 | | 0.480 | 14 | 0.59 | | 1.33 | 10 | 1.15 | | 1.22 B | 10 | 1.05 | 20 |
| 21 | | 0.482 | 12 | 0.47 | | 1.48 | 14 | 1.77 | 0.1 | 1.19 B | 12 S | 1.23 | 21 |
| 22 | | 0.437 | 9 | 0.34 | | 1.18 | 10 | 1.00 | | 1.23 B | 8 | 0.85 | 22 |
| 23 | 9.0 | 0.732 | 10 S | 0.63 | | 0.888 | 8 | 0.87 | | 1.32 B | 10 | 1.14 | 23 |
| 24 | | 0.885 | 15 | 1.15 | | 0.865 | 7 | 0.80 | | 1.12 B | 13 | 1.26 | 24 |
| 25 | | 0.760 | 18 | 1.18 | | 0.931 | 6 | 0.48 | | 1.00 B | 12 | 1.04 | 25 |
| 26 | | 0.803 | 28 | 1.94 | | 0.813 | 5 | 0.42 | | 0.800 B | 12 | 0.83 | 26 |
| 27 | 10.0 | 0.770 | 32 S | 2.13 | | 0.735 | 5 | 0.32 | | 0.850 B | 12 | 0.88 | 27 |
| 28 | | 0.888 | 28 | 1.55 | 3.0 | 0.780 | 8 S | 0.60 | | 0.820 B | 13 | 0.86 | 28 |
| 29 | | 0.804 | 20 | 1.04 | | 1.29 | 7 | 0.78 | | 0.780 B | 12 | 0.81 | 29 |
| 30 | | 0.585 | 15 | 0.75 | | 1.18 | 4 | 0.41 | | 0.780 B | 12 | 0.78 | 30 |
| 31 | | 0.533 | 14 | 0.64 | | | | | | 0.740 B | 12 | 0.77 | 31 |
| TOTAL | | 20.448 | | 40.85 | | 25.805 | | 21.31 | | 43.718 | | 35.25 | TOTAL |
| MEAN | | 0.859 | | 1.31 | | 0.887 | | 0.71 | | 1.41 | | 1.14 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 389.10

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 14 | |
| MAXIMUM DAILY | 75 | ON AUG 11 |
| MINIMUM DAILY | 2 | ON APR 26 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 1.04 | |
| MAXIMUM DAILY | 9.38 | ON SEP 23 |
| MINIMUM DAILY | 0.11 | ON APR 26 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 57 44 N
LONG 81 30 55 W
DRAINAGE AREA 54.8 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

B - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | NUMBER OF SAMPLING POINTS | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | | | | METHOD OF ANALYSIS | TYPE OF SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | 4.000 | 8.000 | 16.000 | 32.000 | 64.000 | | | |
| JUL 16 | 13:10 | 0.172 H | 5 | | 3 | 5 | 8 | 10 | 14 | 20 | 30 | 34 | 37 | 41 | 48 | 80 | 100 | SHW | SCOOP |

H - DAILY MEAN DISCHARGE

ONTARIO

MOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12.8 B | 117 | 127 | | 8.50 B | 28 | 19.1 | | 11.2 | 32 | 31.0 |
| 2 | | 11.0 B | 71 | 67.5 | | 11.0 B | 48 | 45.6 | | 11.8 | 34 | 36.0 |
| 3 | | 10.0 B | 66 | 57.5 | | 16.0 B | 187 | 280 | | 12.4 | 37 | 39.6 |
| 4 | | 9.40 B | 63 | 51.2 | | 13.0 B | 88 | 82.9 | | 14.8 | 52 | 66.6 |
| 5 | | 11.4 B | 83 | 81.8 | | 11.5 B | 31 | 30.6 | | 18.8 | 70 | 114 |
| 6 | 0.1 | 8.73 B | 83 E | 52.1 | | 10.4 B | 29 | 28.1 | | 20.0 | 85 | 113 |
| 7 | | 8.80 B | 83 | 40.3 | | 9.40 B | 28 | 22.7 | | 21.6 | 87 | 126 |
| 8 | | 8.80 B | 81 | 37.8 | | 8.40 B | 25 | 18.1 | | 27.0 | 82 | 191 |
| 9 | | 8.40 B | 48 | 34.8 | | 7.30 B | 25 | 15.8 | | 29.6 | 184 | 419 |
| 10 | | 8.80 B | 83 | 39.4 | | 8.80 B | 27 | 19.4 | 4.0 | 30.9 | 201 E | 537 |
| 11 | | 21.0 B | 142 | 258 | | 8.30 B | 22 | 15.8 | | 22.7 | 108 E | 212 |
| 12 | | 18.0 B | 86 | 81.2 | | 8.00 B | 32 | 18.6 | | 18.6 | 86 E | 93.2 |
| 13 | | 13.5 B | 45 | 52.5 | | 8.90 B | 35 | 17.8 | | 14.7 | 48 E | 81.0 |
| 14 | | 12.5 B | 37 | 40.0 | | 8.20 B | 38 | 19.3 | | 13.4 | 50 E | 57.9 |
| 15 | | 11.5 B | 34 | 33.8 | | 8.80 B | 33 | 18.8 | | 13.1 | 52 E | 58.9 |
| 16 | | 10.5 B | 37 | 33.5 | | 7.40 B | 29 | 18.5 | | 13.2 | 47 E | 53.6 |
| 17 | | 8.60 B | 39 | 32.0 | | 8.40 B | 27 | 19.8 | | 13.3 | 40 | 46.0 |
| 18 | | 8.70 B | 37 | 27.8 | | 8.40 B | 30 | 24.4 | | 13.4 | 42 | 48.8 |
| 19 | | 8.10 B | 32 | 22.4 | | 11.0 B | 33 | 31.4 | | 20.5 | 322 E | 570 |
| 20 | | 7.80 B | 32 | 20.1 | | 13.0 B | 49 | 55.0 | | 43.4 | 510 E | 1 910 |
| 21 | | 7.10 B | 27 | 16.6 | | 15.5 B | 41 | 54.9 | | 28.0 B | 205 E | 443 |
| 22 | | 8.80 B | 26 | 19.3 | | 12.6 B | 33 | 36.6 | | 18.0 B | 100 | 130 |
| 23 | | 7.20 B | 28 | 17.4 | | 11.2 B | 30 | 29.0 | | 13.7 B | 85 | 101 |
| 24 | | 7.70 B | 40 | 26.6 | | 10.0 B | 31 | 26.8 | | 13.0 B | 78 | 84.2 |
| 25 | | 8.40 B | 48 | 34.8 | | 8.30 B | 32 | 26.7 | | 12.4 B | 88 | 83.2 |
| 26 | | 7.80 B | 37 | 24.9 | | 9.00 B | 32 | 24.9 | | 12.7 B | 45 | 49.4 |
| 27 | | 7.60 B | 30 | 19.4 | | 8.30 B | 32 | 25.7 | | 13.9 E | 37 | 44.4 |
| 28 | | 7.20 B | 27 | 16.8 | | 8.70 B | 32 | 26.8 | | 14.5 E | 85 | 88.9 |
| 29 | | 8.80 B | 26 | 19.5 | | | | | | 19.5 E | 118 | 200 |
| 30 | | 8.80 B | 27 | 19.4 | | | | | | 18.2 E | 93 | 148 |
| 31 | | 8.80 B | 27 | 19.1 | | | | | | 15.5 E | 83 | 101 |
| TOTAL | | 287.43 | | 1 410.3 | | 271.10 | | 1 004.0 | | 658.9 | | 6 212.5 |
| MEAN | | 9.59 | | 45.5 | | 9.68 | | 35.9 | | 18.0 | | 200 |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 20.1 E | 78 | 135 | 12.0 | 19.6 | 137 S | 233 | 16.0 | 10.6 | 18 S | 14.7 |
| 2 | | 23.5 E | 128 | 256 | | 28.6 | 304 | 783 | | 10.4 | 15 | 13.5 |
| 3 | | 28.0 E | 330 | 858 | | 44.3 | 481 | 1 840 | 17.0 | 9.73 | 15 S | 12.8 |
| 4 | | 36.5 | 683 S | 1 880 | 12.0 | 38.6 | 230 S | 721 | | 8.98 | 14 | 10.9 |
| 5 | | 35.8 | 239 S | 741 | | 28.3 | 134 S | 328 | 19.0 | 8.21 | 16 S | 12.6 |
| 6 | | 26.6 E | 133 S | 308 | | 21.6 | 90 | 188 | 13.0 | 8.11 | 24 S | 16.6 |
| 7 | 7.6 | 23.7 E | 133 S | 272 | 12.0 | 18.1 | 88 S | 87.5 | | 8.27 | 23 | 16.4 |
| 8 | 7.0 | 30.7 | 176 S | 472 | 8.9 | 18.3 | 120 S | 188 | 18.0 | 8.68 | 20 S | 14.6 |
| 9 | 8.5 | 21.6 E | 102 S | 182 | | 23.6 | 111 | 224 | | 8.24 | 17 | 12.1 |
| 10 | 8.4 | 32.8 E | 801 S | 1 410 | 10.0 | 19.3 | 80 S | 83.4 | 17.5 | 7.87 | 17 S | 11.7 |
| 11 | 7.0 | 48.0 | 388 S | 1 480 | | 15.7 | 30 | 40.7 | | 7.84 | 19 | 12.5 |
| 12 | 7.5 | 33.5 | 169 S | 648 | 15.0 | 13.6 | 28 S | 32.8 | | 7.19 | 21 | 13.0 |
| 13 | 7.0 | 21.7 E | 113 S | 212 | | 12.4 | 35 | 38.8 | | 8.77 | 24 | 14.0 |
| 14 | 8.0 | 19.5 E | 121 S | 204 | | 11.5 | 22 | 21.9 | | 8.24 | 29 | 15.5 |
| 15 | 7.4 | 32.5 E | 272 S | 788 | 14.0 | 11.3 | 39 S | 38.1 | | 8.68 | 38 | 12.9 |
| 16 | | 28.0 E | 108 | 286 | | 11.7 | 84 | 84.5 | 21.0 | 5.17 A | 48 S | 20.1 |
| 17 | 8.0 | 19.4 E | 83 S | 108 | 11.0 | 12.0 | 27 S | 28.0 | | 4.98 | 48 | 19.8 |
| 18 | | 16.6 | 48 | 68.8 | | 11.7 | 15 | 15.2 | | 4.74 | 47 | 18.2 |
| 19 | 8.0 | 14.8 | 38 S | 48.6 | | 11.1 | 15 | 14.4 | | 4.55 | 47 | 18.5 |
| 20 | | 13.7 | 31 | 36.7 | 14.0 | 16.8 | 82 S | 132 | | 4.47 | 48 | 18.9 |
| 21 | 4.8 | 13.2 | 32 S | 36.5 | 14.0 | 22.9 | 114 S | 226 | | 4.33 | 48 | 18.0 |
| 22 | | 12.8 | 28 | 32.3 | | 19.2 | 62 | 103 | | 4.17 | 48 S | 17.7 |
| 23 | 8.0 | 12.6 | 33 S | 36.9 | | 16.8 | 48 S | 69.7 | | 3.98 | 50 | 17.2 |
| 24 | | 12.1 | 32 | 33.5 | | 15.4 | 38 | 55.3 | 22.0 | 3.98 | 51 S | 17.4 |
| 25 | | 11.8 | 23 | 23.1 | 15.0 | 15.3 | 32 S | 42.3 | | 3.85 | 52 | 17.3 |
| 26 | 10.0 | 10.8 | 18 S | 17.0 | | 13.6 | 24 | 28.2 | | 3.60 | 53 | 17.4 |
| 27 | | 10.8 | 26 | 22.9 | 15.0 | 12.5 | 19 S | 20.7 | | 3.91 | 57 | 18.3 |
| 28 | 11.0 | 10.4 | 38 S | 34.1 | | 11.5 | 15 | 18.3 | 19.5 | 4.33 | 84 S | 23.9 |
| 29 | | 10.8 | 40 | 37.3 | 15.0 | 11.0 | 14 S | 13.3 | | 4.45 | 80 | 23.1 |
| 30 | 13.0 | 11.5 | 47 S | 46.7 | | 10.7 | 14 | 12.8 | | 3.85 | 82 | 17.3 |
| 31 | | | | | | 10.7 | 15 | 13.9 | | | | |
| TOTAL | | 563.0 | | 10 147.8 | | 547.7 | | 5 681.3 | | 187.04 | | 494.5 |
| MEAN | | 21.4 | | 338 | | 17.7 | | 183 | | 6.23 | | 16.5 |

## MATTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

### SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.77 | 43 | 14.0 | 23.5 | 4.13 | 37 S | 13.2 | | 6.84 | 73 | 43.1 | 1 |
| 2 | 26.0 | 3.77 | 36 S | 11.7 | | 4.98 | 45 | 19.4 | 19.0 | 4.86 | 40 S | 17.2 | 2 |
| 3 | | 3.83 | 35 | 11.8 | | 4.10 | 40 | 14.2 | | 4.18 | 28 | 10.1 | 3 |
| 4 | | 4.92 | 38 | 16.6 | 23.0 | 3.85 | 38 S | 13.3 | | 3.82 | 23 | 7.18 | 4 |
| 5 | | 6.26 | 41 | 18.7 | | 3.80 | 38 | 12.5 | 20.0 | 2.98 | 22 S | 5.83 | 5 |
| 6 | 20.0 | 5.25 | 34 S | 15.4 | | 3.87 | 35 | 11.1 | | 2.83 | 24 | 5.87 | 6 |
| 7 | | 4.44 | 34 | 13.0 | | 3.35 | 34 | 9.84 | 18.0 | 2.81 | 27 S | 6.58 | 7 |
| 8 | 19.0 | 4.05 | 41 S | 14.3 | | 3.14 | 32 | 8.88 | | 2.74 | 25 | 5.92 | 8 |
| 9 | | 3.85 | 34 | 11.3 | | 3.01 | 30 | 7.80 | | 2.85 | 22 | 5.04 | 9 |
| 10 | 22.0 | 3.88 | 23 S | 7.27 | | 2.94 | 29 | 7.37 | | 2.87 | 20 | 4.44 | 10 |
| 11 | | 3.48 | 21 | 8.31 | | 3.12 | 31 | 8.35 | 19.0 | 2.45 | 18 S | 3.81 | 11 |
| 12 | 25.0 | 3.22 | 30 S | 8.35 | | 3.82 | 40 | 13.2 | | 2.41 | 14 | 2.92 | 12 |
| 13 | | 3.10 | 34 | 9.11 | | 3.58 | 37 | 11.4 | 18.0 | 2.38 | 10 S | 2.08 | 13 |
| 14 | 25.0 | 3.01 | 32 S | 8.32 | | 3.12 | 36 | 9.70 | | 2.36 | 9 | 1.84 | 14 |
| 15 | | 2.94 | 27 | 6.88 | | 2.93 | 36 | 9.11 | | 2.35 | 9 | 1.83 | 15 |
| 16 | 27.0 | 2.75 | 22 S | 5.23 | | 2.68 | 35 | 8.95 | | 2.68 | 14 | 3.25 | 16 |
| 17 | | 2.78 | 18 | 4.29 | 20.0 | 2.77 | 35 S | 8.38 | | 6.80 | 35 | 18.8 | 17 |
| 18 | 26.5 | 2.85 | 18 S | 3.94 | | 2.67 | 38 | 8.87 | 18.0 | 6.30 | 29 S | 15.8 | 18 |
| 19 | | 3.81 | 21 | 8.10 | 21.0 | 2.68 | 38 S | 8.70 | | 6.33 | 21 | 11.5 | 19 |
| 20 | 25.0 | 2.89 | 31 S | 7.20 | | 2.75 | 33 | 7.84 | 17.0 | 6.38 | 20 S | 9.24 | 20 |
| 21 | | 2.88 | 30 | 8.85 | 21.0 | 2.88 | 28 S | 8.19 | | 5.88 | 38 | 19.2 | 21 |
| 22 | | 3.83 | 30 | 7.31 | 18.0 | 5.07 | 89 S | 38.0 | | 9.08 | 53 | 41.6 | 22 |
| 23 | | 2.74 | 29 | 6.87 | | 8.03 | 66 | 44.4 | | 5.78 | 44 | 25.6 | 23 |
| 24 | | 2.77 | 28 | 8.70 | | 5.28 | 32 | 14.5 | | 5.04 | 38 | 15.7 | 24 |
| 25 | | 2.79 | 27 | 8.61 | | 4.07 | 23 | 8.08 | | 4.17 | 31 | 11.2 | 25 |
| 26 | | 2.88 | 27 | 8.21 | | 3.81 | 20 | 6.24 | | 4.00 | 28 | 8.88 | 26 |
| 27 | | 3.48 | 28 | 8.53 | | 3.28 | 18 | 5.10 | 14.0 | 3.82 | 26 S | 8.58 | 27 |
| 28 | | 2.37 | 28 | 5.32 | | 3.22 | 17 | 4.73 | | 3.57 | 21 | 6.48 | 28 |
| 29 | | 2.84 | 28 | 6.81 | 24.0 | 3.84 | 22 S | 8.82 | | 3.45 | 18 | 5.37 | 29 |
| 30 | | 3.21 | 34 | 9.43 | | 4.12 | 29 | 10.3 | | 3.36 | 18 | 4.83 | 30 |
| 31 | | 3.17 | 31 | 8.49 | 21.0 | 7.91 | 125 S | 85.4 | | | | | 31 |
| TOTAL | | 102.36 | | 272.71 | | 118.58 | | 444.37 | | 123.51 | | 328.44 | TOTAL |
| MEAN | | 3.30 | | 8.80 | | 3.82 | | 14.3 | | 4.12 | | 10.8 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.41 | 12 | 3.84 | | 3.98 | 8 | 2.74 | | 7.20 B | 22 | 13.7 | 1 |
| 2 | | 3.27 | 8 | 2.28 | 5.0 | 4.03 | 8 S | 2.79 | | 5.40 B | 16 | 7.35 | 2 |
| 3 | | 3.18 | 8 | 1.88 | | 4.84 | 11 | 4.69 | 0.1 | 5.80 B | 12 S | 6.01 | 3 |
| 4 | | 3.23 | 7 | 2.01 | 4.0 | 5.38 | 11 S | 5.12 | | 5.80 B | 6 | 3.87 | 4 |
| 5 | | 4.81 | 18 | 7.48 | 4.5 | 5.27 | 8 S | 4.10 | 0.1 | 5.50 B | 4 S | 1.90 | 5 |
| 6 | 13.5 | 5.71 | 18 S | 7.89 | | 5.77 | 12 | 5.98 | | 5.90 B | 4 | 2.04 | 6 |
| 7 | | 5.04 | 8 | 3.46 | 5.0 | 5.84 | 12 S | 8.18 | | 5.40 B | 6 | 4.42 | 7 |
| 8 | 11.0 | 4.82 | 8 S | 3.40 | | 5.43 | 8 | 4.23 | | 6.00 B | 7 | 3.83 | 8 |
| 9 | | 5.47 | 4 | 1.88 | 5.0 | 4.92 | 8 S | 3.83 | | 5.70 B | 6 | 2.85 | 9 |
| 10 | 10.0 | 5.19 | 3 S | 1.35 | | 4.85 | 10 | 4.02 | | 5.50 B | 5 | 2.38 | 10 |
| 11 | | 4.85 | 2 | 0.78 | | 7.30 | 29 | 18.3 | | 5.30 B | 5 | 2.29 | 11 |
| 12 | 12.0 | 4.36 | 3 S | 1.13 | | 10.4 | 36 | 32.3 | | 5.00 B | 15 | 7.78 | 12 |
| 13 | | 5.61 | 10 | 5.02 | 1.0 | 8.02 | 19 S | 13.2 | | 7.80 B | 44 | 28.9 | 13 |
| 14 | | 7.81 | 20 | 13.5 | | 8.46 | 12 | 8.68 | | 8.40 B | 29 | 21.0 | 14 |
| 15 | | 8.82 | 18 | 9.43 | | 8.52 | 15 | 9.01 | | 7.60 B | 11 | 7.22 | 15 |
| 16 | 9.0 | 5.60 | 6 S | 2.90 | | 8.80 | 36 | 26.7 | | 7.00 B | 5 | 3.02 | 16 |
| 17 | | 4.93 | 2 | 0.85 | | 12.0 | 47 | 48.7 | | 5.50 B | 5 | 2.61 | 17 |
| 18 | 10.0 | 4.47 | 2 S | 0.77 | | 8.87 | 32 | 24.8 | | 5.00 B | 5 | 2.59 | 18 |
| 19 | | 4.08 | 2 | 0.71 | | 7.78 | 20 | 13.4 | | 5.50 B | 5 | 2.65 | 19 |
| 20 | | 3.81 | 2 | 0.66 | 3.0 | 8.30 | 19 S | 13.8 | | 5.20 B | 5 | 2.25 | 20 |
| 21 | | 3.88 | 2 | 0.84 | 4.5 | 15.8 | 148 S | 202 | | 5.00 B | 5 | 2.18 | 21 |
| 22 | 8.0 | 3.82 | 2 S | 0.83 | 4.5 | 18.4 | 155 S | 262 | | 5.50 B | 5 | 2.85 | 22 |
| 23 | | 4.44 | 7 | 2.89 | | 13.1 | 53 | 60.0 | | 5.40 B | 5 | 2.33 | 23 |
| 24 | 8.0 | 7.80 | 23 S | 15.5 | 0.5 | 11.1 | 29 S | 27.8 | | 5.20 B | 5 | 2.25 | 24 |
| 25 | | 8.97 | 12 | 9.23 | | 10.3 | 26 | 23.1 | | 5.00 B | 5 | 2.16 | 25 |
| 26 | 8.0 | 5.81 | 5 S | 2.51 | | 8.72 | 14 | 10.5 | | 4.80 B | 5 | 2.07 | 26 |
| 27 | | 5.55 | 6 | 3.84 | 0.1 | 7.58 | 10 S | 8.53 | | 4.70 B | 5 | 2.03 | 27 |
| 28 | 9.0 | 5.26 | 8 S | 4.09 | 0.1 | 7.01 | 12 S | 7.27 | | 4.50 B | 5 | 1.94 | 28 |
| 29 | | 4.74 | 9 | 3.88 | | 8.82 | 28 | 21.5 | | 4.40 B | 5 | 1.90 | 29 |
| 30 | 8.0 | 4.40 | 8 S | 3.04 | | 8.00 B | 30 | 20.7 | | 4.30 B | 5 | 1.85 | 30 |
| 31 | | 4.17 | 6 | 2.85 | | | | | | 4.20 B | 5 | 1.81 | 31 |
| TOTAL | | 152.71 | | 116.45 | | 243.54 | | 881.84 | | 178.10 | | 153.82 | TOTAL |
| MEAN | | 4.93 | | 3.76 | | 8.12 | | 28.7 | | 5.75 | | 4.95 | MEAN |

SUMMARY FOR THE YEAR 1983

| SUSPENDED SEDIMENT CONCENTRATION(mg/L) | | |
|---|---|---|
| MEAN | 92 | |
| MAXIMUM DAILY | 583 | ON APR 04 |
| MINIMUM DAILY | 2 | ON OCT 11 |

| SUSPENDED SEDIMENT LOAD(t/d) | | |
|---|---|---|
| MEAN | 76.3 | |
| MAXIMUM DAILY | 1 910 | ON MAR 20 |
| MINIMUM DAILY | 0.83 | ON OCT 23 |

TOTAL SUSPENDED SEDIMENT LOAD 27 137 73 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 14 55 N
LONG 79 45 20 W
DRAINAGE AREA 1 180 $km^2$
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

MOOSONEE DISTRICT

MOOSE RIVER BASIN

MOOSE RIVER AT MOOSONEE - STATION NO. 02HC001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 10 | 11:00 | 32.8 | 0.4 | 528 K | 14 | 20 | 29 | 45 | 65 | 77 | 88 | 91 | 95 | 99 | | BNW |

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MOOSONEE DISTRICT

MOOSE RIVER BASIN

MOOSE RIVER AT MOOSONEE - STATION NO. 02HC001

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASURE-MENT ($m^3/s$) | NUMBER OF SAMPLING POINTS | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | | | METHOD OF ANALYSIS | TYPE OF SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | 4.000 | 8.000 | 16.000 | 32.000 | 64.000 | |
| SEP 27 | 09:30 | 3.83H | 5 | 2 | 3 | 7 | 31 | 49 | 68 | 89 | 100 | | | | | SH | SCOOP |

H - DAILY MEAN DISCHARGE

## O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.021 | 7 | 0.01 | 3.0 | 0.008 | 4 S | 0 | | 0.012 | 5 | 0.01 | 1 |
| 2 | | 0.018 | 7 | 0.01 | | 0.341 | 55 | 1.65 | | 0.012 | 4 | 0 | 2 |
| 3 | | 0.018 | 7 | 0.01 | | 0.233 | 36 | 0.72 | 5.0 | 0.013 | 8 S | 0.01 | 3 |
| 4 | | 0.014 | 7 | 0.01 | | 0.022 | 17 | 0.03 | | 0.020 | 15 | 0.03 | 4 |
| 5 | | 0.013 | 6 | 0.01 | 1.8 | 0.013 | 14 S | 0.02 | | 0.018 | 8 | 0.01 | 5 |
| 6 | | 0.013 | 6 | 0.01 | 1.8 | 0.011 | 10 S | 0.01 | | 0.021 | 11 | 0.02 | 6 |
| 7 | | 0.018 | 7 | 0.01 | | 0.010 | 7 | 0.01 | | 0.033 | 40 | 0.11 | 7 |
| 8 | | 0.013 | 8 | 0.01 | 2.0 | 0.008 | 5 S | 0 | 7.0 | 0.037 | 30 S | 0.10 | 8 |
| 9 | | 0.011 | 7 | 0.01 | 2.0 | 0.007 | 2 S | 0 | | 0.054 | 35 | 0.18 | 9 |
| 10 | 1.0 | 0.190 | 132 S | 2.17 | | 0.008 | 2 | 0 | | 0.038 | 43 | 0.13 | 10 |
| 11 | 4.0 | 0.167 | 54 S | 0.88 | | 0.005 | 2 | 0 | | 0.025 | 39 | 0.08 | 11 |
| 12 | | 0.030 | 13 | 0.03 | | 0.005 | 2 | 0 | 3.0 | 0.018 | 37 S | 0.06 | 12 |
| 13 | 3.0 | 0.021 | 8 S | 0.01 | | 0.004 | 1 | 0 | | 0.018 | 33 | 0.05 | 13 |
| 14 | | 0.018 | 8 | 0.01 | | 0.005 | 3 | 0 | | 0.018 | 30 | 0.04 | 14 |
| 15 | | 0.014 | 5 | 0.01 | | 0.047 | 20 | 0.08 | | 0.018 | 27 | 0.03 | 15 |
| 16 | | 0.013 | 3 | 0 | 2.0 | 0.024 | 14 S | 0.03 | 5.5 | 0.014 | 23 S | 0.03 | 16 |
| 17 | 2.0 | 0.011 | 1 S | 0 | | 0.033 | 12 | 0.03 | | 0.013 | 21 | 0.02 | 17 |
| 18 | 1.2 | 0.010 | 1 S | 0 | | 0.027 | 13 | 0.03 | | 0.015 | 24 | 0.03 | 18 |
| 19 | 1.5 | 0.008 | 1 S | 0 | 3.0 | 0.014 | 11 S | 0.01 | | 0.232 | 84 | 1.28 | 19 |
| 20 | | 0.008 | 1 | 0 | | 0.034 | 14 | 0.04 | | 0.088 | 32 | 0.18 | 20 |
| 21 | | 0.007 | 1 | 0 | | 0.021 | 11 | 0.02 | | 0.031 | 27 | 0.07 | 21 |
| 22 | | 0.006 | 2 | 0 | | 0.023 | 13 | 0.03 | | 0.024 | 24 | 0.05 | 22 |
| 23 | | 0.006 | 2 | 0 | | 0.112 | 28 | 0.27 | | 0.021 | 22 | 0.04 | 23 |
| 24 | 4.0 | 0.006 | 2 S | 0 | | 0.023 | 13 | 0.03 | | 0.020 | 21 | 0.04 | 24 |
| 25 | | 0.005 | 2 | 0 | | 0.010 | 8 | 0.01 | 1.0 | 0.020 | 18 S | 0.03 | 25 |
| 26 | 3.0 | 0.007 | 1 S | 0 | | 0.014 | 7 | 0.01 | | 0.021 | 24 | 0.04 | 26 |
| 27 | | 0.005 | 1 | 0 | 3.0 | 0.012 | 8 S | 0.01 | | 0.024 | 26 | 0.05 | 27 |
| 28 | 3.0 | 0.005 | 1 S | 0 | | 0.012 | 8 | 0.01 | | 0.058 | 37 | 0.25 | 28 |
| 29 | 4.0 | 0.006 | 1 S | 0 | | | | | 4.0 | 0.049 | 24 S | 0.10 | 29 |
| 30 | | 0.005 | 13 | 0.01 | | | | | | 0.035 | 19 | 0.05 | 30 |
| 31 | | 0.013 | 4 | 0 | | | | | | 0.037 | 18 | 0.05 | 31 |
| TOTAL | | 0.589 | | 3.02 | | 1.081 | | 3.05 | | 1.058 | | 3.22 | TOTAL |
| MEAN | | 0.022 | | 0.10 | | 0.039 | | 0.11 | | 0.034 | | 0.10 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.028 | 14 | 0.03 | 5.5 | 0.048 | 20 S | 0.08 | | 0.032 | 11 | 0.03 | 1 |
| 2 | | 0.024 | 14 | 0.03 | 13.0 | 0.905 | 281 S | 11.4 | | 0.022 | 9 | 0.02 | 2 |
| 3 | | 0.084 | 29 | 0.18 | | 0.138 | 37 | 0.43 | | 0.020 | 11 | 0.02 | 3 |
| 4 | 2.0 | 0.042 | 25 S | 0.08 | | 0.102 | 11 | 0.10 | | 0.028 | 16 | 0.04 | 4 |
| 5 | 5.0 | 0.027 | 33 S | 0.08 | | 0.068 | 9 | 0.07 | | 0.028 | 22 | 0.05 | 5 |
| 6 | | 0.021 | 34 | 0.06 | | 0.042 | 8 | 0.03 | 12.0 | 0.079 | 43 S | 0.29 | 6 |
| 7 | | 0.075 | 42 | 0.27 | | 0.038 | 14 | 0.04 | | 0.030 | 10 | 0.03 | 7 |
| 8 | | 0.034 | 27 | 0.08 | | 0.144 | 88 | 1.23 | 14.0 | 0.019 | 6 S | 0.01 | 8 |
| 9 | 5.5 | 0.031 | 29 S | 0.08 | | 0.038 | 75 | 0.28 | | 0.015 | 7 | 0.01 | 9 |
| 10 | | 0.318 | 77 | 2.12 | | 0.028 | 88 | 0.15 | 14.0 | 0.012 | 16 S | 0.02 | 10 |
| 11 | | 0.057 | 40 | 0.20 | | 0.021 | 63 | 0.11 | | 0.010 | 21 | 0.02 | 11 |
| 12 | | 0.036 | 34 | 0.10 | | 0.018 | 80 | 0.09 | | 0.008 | 32 | 0.02 | 12 |
| 13 | | 0.027 | 29 | 0.07 | | 0.016 | 58 | 0.08 | 14.0 | 0.007 | 88 S | 0.04 | 13 |
| 14 | | 0.322 | 68 | 1.30 | 11.0 | 0.018 | 80 S | 0.08 | | 0.006 | 55 | 0.03 | 14 |
| 15 | | 0.133 | 39 | 0.45 | | 0.033 | 55 | 0.15 | 14.5 | 0.006 | 40 S | 0.02 | 15 |
| 16 | | 0.045 | 12 | 0.05 | | 0.015 | 50 | 0.06 | | 0.005 | 35 | 0.02 | 16 |
| 17 | 4.0 | 0.028 | 9 S | 0.02 | | 0.013 | 45 | 0.05 | | 0.005 | 29 | 0.01 | 17 |
| 18 | | 0.025 | 10 | 0.02 | | 0.012 | 45 | 0.05 | | 0.004 | 19 | 0.01 | 18 |
| 19 | | 0.021 | 23 | 0.04 | | 0.122 | 82 | 0.85 | | 0.004 | 11 | 0 | 19 |
| 20 | | 0.018 | 32 | 0.05 | | 0.051 | 47 | 0.21 | 14.0 | 0.004 | 7 S | 0 | 20 |
| 21 | 3.0 | 0.018 | 30 S | 0.04 | | 0.030 | 33 | 0.08 | 13.5 | 0.003 | 16 S | 0 | 21 |
| 22 | 7.0 | 0.015 | 26 S | 0.03 | | 0.040 | 42 | 0.15 | | 0.004 | 20 | 0.01 | 22 |
| 23 | | 0.012 | 23 | 0.02 | | 0.033 | 28 | 0.07 | 14.0 | 0.004 | 16 S | 0.01 | 23 |
| 24 | | 0.012 | 20 | 0.02 | | 0.023 | 16 | 0.04 | | 0.004 | 17 | 0.01 | 24 |
| 25 | 5.5 | 0.012 | 19 S | 0.02 | | 0.036 | 24 | 0.08 | | 0.004 | 17 | 0.01 | 25 |
| 26 | | 0.012 | 17 | 0.02 | | 0.028 | 20 | 0.04 | | 0.003 | 16 | 0 | 26 |
| 27 | 9.0 | 0.013 | 10 S | 0.01 | | 0.021 | 15 | 0.03 | | 0.012 | 22 | 0.02 | 27 |
| 28 | | 0.032 | 13 | 0.04 | | 0.018 | 14 | 0.02 | | 0.048 | 37 | 0.15 | 28 |
| 29 | | 0.021 | 10 | 0.02 | | 0.068 | 35 | 0.23 | | 0.004 | 26 | 0.01 | 29 |
| 30 | 10.0 | 0.148 | 46 S | 0.58 | | 0.030 | 13 | 0.03 | | 0.003 | 26 | 0.01 | 30 |
| 31 | | | | | | 0.045 | 16 | 0.08 | | | | | 31 |
| TOTAL | | 1.569 | | 5.11 | | 1.842 | | 16.15 | | 0.433 | | 0.83 | TOTAL |
| MEAN | | 0.052 | | 0.20 | | 0.059 | | 0.52 | | 0.014 | | 0.03 | MEAN |

ONTARIO

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02EA033

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.003 | 28 | 0.01 | 18.0 | 0.021 | 11 S | 0.02 | 17.0 | 0.004 | 23 S | 0.01 | 1 |
| 2 | | 0.004 | 24 | 0.01 | 18.0 | 0.005 | 40 S | 0.02 | | 0.003 | 21 | 0.01 | 2 |
| 3 | 18.0 | 0.003 | 21 S | 0.01 | | 0.004 | 26 | 0.01 | | 0.003 | 18 | 0 | 3 |
| 4 | 14.5 | 0.010 | 14 S | 0.01 | 18.0 | 0.010 | 11 S | 0.01 | | 0.003 | 18 | 0 | 4 |
| 5 | 18.0 | 0.009 | 8 S | 0.01 | | 0.004 | 58 | 0.02 | 18.0 | 0.003 | 18 S | 0 | 5 |
| 6 | | 0.004 | 4 | 0 | 18.0 | 0.003 | 112 S | 0.03 | | 0.009 | 28 | 0.02 | 6 |
| 7 | 14.5 | 0.003 | 8 S | 0 | 17.0 | 0.003 | 80 S | 0.02 | | 0.004 | 28 | 0.01 | 7 |
| 8 | | 0.004 | 3 | 0 | | 0.003 | 58 | 0.02 | | 0.006 | 28 | 0.01 | 8 |
| 9 | | 0.004 | 12 | 0 | | 0.003 | 35 | 0.01 | 18.0 | 0.009 | 23 S | 0.02 | 9 |
| 10 | | 0.003 | 15 | 0 | | 0.003 | 15 | 0 | | 0.004 | 22 | 0.01 | 10 |
| 11 | 14.0 | 0.004 | 18 S | 0.01 | | 0.335 | 63 | 1.82 | | 0.003 | 20 | 0.01 | 11 |
| 12 | 14.0 | 0.004 | 41 S | 0.01 | | 0.008 | 36 | 0.02 | | 0.004 | 20 S | 0.01 | 12 |
| 13 | 14.5 | 0.003 | 68 S | 0.02 | | 0.006 | 33 | 0.01 | | 0.003 | 18 | 0 | 13 |
| 14 | | 0.003 | 70 | 0.02 | | 0.004 | 33 | 0.01 | 14.0 | 0.003 | 18 | 0 | 14 |
| 15 | 15.0 | 0.003 | 71 S | 0.02 | 18.5 | 0.004 | 33 S | 0.01 | | 0.004 | 14 | 0 | 15 |
| 16 | 15.0 | 0.003 | 73 S | 0.02 | | 0.003 | 32 | 0.01 | | 0.114 | 230 | 2.27 | 16 |
| 17 | | 0.004 | 88 | 0.02 | | 0.003 | 33 | 0.01 | | 0.018 | 28 | 0.04 | 17 |
| 18 | 15.0 | 0.004 | 69 S | 0.02 | | 0.006 | 33 | 0.02 | | 0.071 | 184 S | 0.84 | 18 |
| 19 | | 0.003 | 44 | 0.01 | | 0.006 | 33 | 0.02 | | 0.011 | 22 | 0.02 | 19 |
| 20 | | 0.003 | 40 | 0.01 | | 0.005 | 33 | 0.02 | 18.5 | 0.008 | 18 S | 0.01 | 20 |
| 21 | | 0.003 | 38 | 0.01 | 18.5 | 0.005 | 33 S | 0.01 | | 0.191 | 212 S | 3.50 | 21 |
| 22 | | 0.003 | 37 | 0.01 | 18.5 | 0.078 | 30 S | 0.20 | | 0.020 | 61 | 0.11 | 22 |
| 23 | | 0.003 | 36 | 0.01 | 17.0 | 0.008 | 46 S | 0.04 | | 0.017 | 48 | 0.07 | 23 |
| 24 | | 0.003 | 35 | 0.01 | 17.0 | 0.006 | 38 S | 0.02 | | 0.015 | 44 | 0.06 | 24 |
| 25 | | 0.003 | 34 | 0.01 | | 0.005 | 29 | 0.02 | | 0.008 | 42 | 0.03 | 25 |
| 26 | 15.0 | 0.004 | 34 S | 0.01 | | 0.005 | 28 | 0.02 | | 0.012 | 41 | 0.04 | 26 |
| 27 | | 0.004 | 34 | 0.01 | | 0.007 | 28 | 0.02 | 14.0 | 0.013 | 40 S | 0.04 | 27 |
| 28 | | 0.004 | 34 | 0.01 | | 0.004 | 28 | 0.01 | | 0.013 | 39 | 0.04 | 28 |
| 29 | 19.0 | 0.038 | 165 S | 0.58 | | 0.005 | 31 | 0.01 | | 0.011 | 38 | 0.04 | 29 |
| 30 | | 0.005 | 21 | 0.01 | | 0.009 | 30 | 0.02 | | 0.013 | 39 | 0.04 | 30 |
| 31 | 20.0 | 0.044 | 27 S | 0.10 | 18.0 | 0.008 | 21 S | 0.01 | | | | | 31 |
| TOTAL | | 0.193 | | 0.98 | | 0.586 | | 2.48 | | 0.502 | | 7.38 | TOTAL |
| MEAN | | 0.006 | | 0.03 | | 0.019 | | 0.08 | | 0.020 | | 0.25 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.012 | 38 | 0.04 | 11.0 | 0.004 | 3 S | 0 | | 0.008 | 29 | 0.02 | 1 |
| 2 | | 0.008 | 37 | 0.03 | 11.0 | 0.041 | 12 S | 0.04 | | 0.008 | 28 | 0.02 | 2 |
| 3 | | 0.011 | 44 | 0.04 | | 0.017 | 4 | 0.01 | | 0.008 | 27 | 0.01 | 3 |
| 4 | | 0.015 | 38 | 0.05 | | 0.008 | 3 | 0 | | 0.008 | 28 | 0.01 | 4 |
| 5 | | 0.017 | 39 | 0.06 | | 0.008 | 3 | 0 | | 0.011 | 27 | 0.03 | 5 |
| 6 | | 0.010 | 35 | 0.03 | | 0.004 | 3 | 0 | | 0.077 | 33 | 0.22 | 6 |
| 7 | | 0.007 | 33 | 0.02 | | 0.004 | 2 | 0 | | 0.038 | 28 | 0.08 | 7 |
| 8 | | 0.020 | 47 | 0.08 | | 0.003 | 2 | 0 | | 0.021 | 25 | 0.05 | 8 |
| 9 | | 0.011 | 28 | 0.02 | | 0.003 | 2 | 0 | 3.5 | 0.013 | 25 S | 0.03 | 9 |
| 10 | | 0.008 | 21 | 0.01 | | 0.007 | 7 | 0 | | 0.011 | 25 | 0.02 | 10 |
| 11 | | 0.007 | 20 | 0.01 | | 0.058 | 22 | 0.11 | | 0.008 | 25 | 0.02 | 11 |
| 12 | | 0.051 | 101 | 0.45 | | 0.008 | 5 | 0 | | 0.420 | 78 | 2.78 | 12 |
| 13 | | 0.048 | 97 S | 0.27 | | 0.004 | 2 | 0 | | 0.052 | 25 | 0.13 | 13 |
| 14 | | 0.019 | 7 S | 0.01 | 8.0 | 0.004 | 3 S | 0 | | 0.023 | 24 | 0.05 | 14 |
| 15 | 13.0 | 0.008 | 5 S | 0 | | 0.012 | 8 | 0.01 | | 0.038 | 31 | 0.10 | 15 |
| 16 | 11.5 | 0.004 | 3 S | 0 | | 0.048 | 8 | 0.03 | | 0.018 | 25 | 0.03 | 16 |
| 17 | | 0.007 | 4 | 0 | 2.0 | 0.012 | 1 S | 0 | | 0.011 | 24 | 0.02 | 17 |
| 18 | | 0.004 | 2 S | 0 | | 0.008 | 1 | 0 | | 0.010 | 23 | 0.02 | 18 |
| 19 | | 0.003 | 3 | 0 | | 0.005 | 2 | 0 | | 0.008 | 22 | 0.02 | 19 |
| 20 | | 0.003 | 5 | 0 | 5.5 | 0.041 | 19 S | 0.07 | | 0.009 | 23 | 0.02 | 20 |
| 21 | 10.0 | 0.003 | 7 S | 0 | 7.0 | 0.025 | 11 S | 0.02 | 2.0 | 0.008 | 22 S | 0.01 | 21 |
| 22 | 9.5 | 0.003 | 19 S | 0 | | 0.010 | 3 | 0 | | 0.007 | 24 | 0.01 | 22 |
| 23 | | 0.186 | 62 | 0.83 | | 0.023 | 12 | 0.02 | | 0.008 | 25 | 0.02 | 23 |
| 24 | | 0.011 | 8 | 0.01 | | 0.017 | 7 | 0.01 | | 0.008 | 22 | 0.01 | 24 |
| 25 | | 0.008 | 5 | 0 | | 0.010 | 5 | 0 | | 0.008 | 22 | 0.01 | 25 |
| 26 | | 0.005 | 4 | 0 | 7.0 | 0.008 | 5 S | 0 | | 0.005 | 22 | 0.01 | 26 |
| 27 | | 0.004 | 3 | 0 | 7.0 | 0.005 | 18 S | 0.01 | | 0.005 | 22 | 0.01 | 27 |
| 28 | 11.0 | 0.004 | 3 S | 0 | | 0.105 | 41 | 0.37 | | 0.004 | 21 | 0.01 | 28 |
| 29 | | 0.003 | 2 | 0 | | 0.036 | 31 | 0.10 | | 0.004 | 21 | 0.01 | 29 |
| 30 | | 0.003 | 2 | 0 | | 0.011 | 30 | 0.03 | | 0.004 | 21 | 0.01 | 30 |
| 31 | | 0.003 | 1 | 0 | | | | | | 0.004 | 21 | 0.01 | 31 |
| TOTAL | | 0.495 | | 1.98 | | 0.543 | | 0.83 | | 0.557 | | 3.79 | TOTAL |
| MEAN | | 0.015 | | 0.06 | | 0.018 | | 0.03 | | 0.020 | | 0.12 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 49.88 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 58 | |
| MAXIMUM DAILY | 261 | ON MAY 02 |
| MINIMUM DAILY | 1 | ON JAN 17 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 0.14 | |
| MAXIMUM DAILY | 11.4 | ON MAY 02 |
| MINIMUM DAILY | 0 | ON JAN 18 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 31 53 N
LONG 80 18 18 W
DRAINAGE AREA 2.61 $km^2$
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

D.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT | WATER TEMP. | CONCENTRATION OF SAMPLE(S) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ($m^3/s$) | (°C) | (mg/L) | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| JAN 19 | 15:45 | 0.025N | 1.0 | 327 K | 15 | 27 | 50 | 94 | 98 | 100 | | | | | | BWW |
| SEP 16 | 11:35 | 0.071N | 14.0 | 403 K | 11 | 21 | 55 | 100 | | | | | | | | BWW |

N - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 70.0 | 45 | 272 | | 6.56 | 18 | 10.2 | | 12.0 | 48 S | 49.7 | 1 |
| 2 | | 60.0 | 40 | 173 | | 6.83 | 18 | 10.5 | | 11.8 | 46 | 47.3 | 2 |
| 3 | | 44.5 | 38 | 148 | | 30.0 | 25 | 64.8 | | 15.2 | 47 | 58.5 | 3 |
| 4 | | 34.4 | 35 | 107 | | 282 | 70 | 1 680 | | 24.0 | 46 | 88.6 | 4 |
| 5 | | 18.8 | 34 | 55.2 | | 206 | 65 | 1 160 | 0.1 | 32.0 S | 48 S | 135 | 5 |
| 6 | | 16.5 | 33 | 46.8 | | 138 | 63 | 740 | 0.1 | 35.0 S | 46 S | 149 | 6 |
| 7 | | 15.5 | 30 | 40.2 | | 95.7 | 60 | 517 | 0.1 | 54.0 S | 46 S | 224 | 7 |
| 8 | | 14.3 | 28 | 34.6 | | 66.5 | 65 | 318 | 0.5 | 101 S | 49 S | 428 | 8 |
| 9 | | 12.2 | 27 | 28.5 | | 39.6 | 63 | 181 | | 125 S | 48 S | 487 | 9 |
| 10 | | 13.6 | 25 | 29.4 | | 25.6 | 60 | 116 | 1.0 | 160 S | 55 S | 780 | 10 |
| 11 | | 71.7 | 33 | 204 | | 21.3 | 60 | 82.0 | | 190 S | 79 | 1 300 | 11 |
| 12 | | 229 | 60 | 1 190 | | 17.9 S | 60 | 77.3 | 1.0 | 226 S | 73 S | 1 440 | 12 |
| 13 | | 144 | 35 | 435 | | 15.8 S | 60 | 68.7 | | 161 S | 72 | 1 130 | 13 |
| 14 | | 78.6 | 30 | 204 | | 13.9 S | 60 | 60.0 | 2.0 | 180 S | 73 S | 1 140 | 14 |
| 15 | | 60.0 | 28 | 88.4 | | 11.7 S | 49 | 49.6 | | 159 S | 72 | 1 180 | 15 |
| 16 | | 24.6 | 23 | 48.8 | | 9.47 | 48 | 39.3 | 2.0 | 178 S | 70 S | 1 080 | 16 |
| 17 | | 18.1 | 21 | 34.7 | | 7.78 | 47 | 31.8 | 0.5 | 162 S | 71 S | 1 120 | 17 |
| 18 | | 18.0 | 20 | 27.6 | | 6.03 | 48 | 31.9 | 3.0 | 175 S | 71 S | 1 080 | 18 |
| 19 | | 15.7 S | 19 | 25.8 | | 9.39 | 44 | 35.7 | | 282 S | 72 | 1 830 | 19 |
| 20 | | 15.3 S | 18 | 23.6 | | 11.1 | 42 | 40.3 | | 495 S | 73 | 3 130 | 20 |
| 21 | | 15.0 S | 18 S | 23.3 | | 12.2 | 42 | 44.3 | 3.0 | 412 | 73 S | 2 660 | 21 |
| 22 | | 14.6 S | 18 | 22.7 | | 18.6 | 40 | 63.9 | | 281 | 73 S | 1 850 | 22 |
| 23 | | 14.0 S | 18 | 21.8 | | 22.7 | 80 | 118 | 3.0 | 181 | 73 S | 952 | 23 |
| 24 | | 13.1 S | 18 | 20.4 | | 23.6 | 83 | 105 | | 88.0 | 72 | 535 | 24 |
| 25 | | 12.3 S | 18 | 19.1 | | 19.7 | 80 | 85.1 | 3.0 | 80.2 | 71 S | 369 | 25 |
| 26 | | 11.6 S | 18 | 17.8 | | 15.8 | 48 | 87.3 | | 38.7 | 70 | 240 | 26 |
| 27 | | 10.3 S | 18 | 15.0 | | 14.5 | 46 | 80.1 | | 33.2 | 68 | 186 | 27 |
| 28 | | 9.75 | 20 S | 15.8 | | 16.2 | 47 | 87.7 | 4.0 | 34.3 | 70 S | 207 | 28 |
| 29 | | 9.10 | 20 | 15.7 | | | | | | 75.4 | 83 | 541 | 29 |
| 30 | | 7.85 | 19 | 12.4 | | | | | | 87.3 | 79 | 482 | 30 |
| 31 | | 7.14 | 18 | 11.1 | | | | | | 49.8 | 78 | 327 | 31 |
| TOTAL | | 1 088.24 | | 3 408.9 | | 1 143.89 | | 5 808.3 | | 4 132.0 | | 24 886.3 | TOTAL |
| MEAN | | 34.6 | | 110 | | 40.8 | | 207 | | 133 | | 803 | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 44.3 | 75 | 288 | | 118 | 114 | 1 180 | | 60.8 | 88 | 420 | 1 |
| 2 | 5.0 | 63.4 | 75 S | 348 | | 186 | 153 | 3 210 | | 33.9 | 81 | 237 | 2 |
| 3 | | 87.5 | 80 | 519 | | 218 | 173 | 4 780 | | 28.5 | 89 | 182 | 3 |
| 4 | | 103 | 105 | 934 | | 208 | 132 | 3 450 | | 20.7 | 83 | 116 | 4 |
| 5 | 5.0 | 172 | 85 S | 1 280 | | 262 | 103 | 2 240 | | 18.3 | 88 | 103 | 5 |
| 6 | | 188 | 70 | 1 000 | | 173 | 88 | 1 330 | | 18.8 | 88 | 94.3 | 6 |
| 7 | | 141 | 67 | 818 | | 111 | 79 | 756 | 17.0 | 18.2 | 85 S | 102 | 7 |
| 8 | 5.0 | 148 | 77 S | 885 | | 87.8 | 88 | 823 | | 19.0 | 84 | 106 | 8 |
| 9 | | 148 | 81 | 1 140 | | 122 | 88 | 822 | | 18.0 | 83 | 88.0 | 9 |
| 10 | 5.0 | 128 | 87 S | 870 | 13.0 | 148 | 88 S | 784 | | 18.2 | 82 | 97.5 | 10 |
| 11 | | 234 | 88 | 1 940 | | 182 | 84 | 1 180 | | 18.8 | 81 | 97.5 | 11 |
| 12 | | 233 | 78 | 1 530 | | 128 | 81 | 898 | | 18.3 | 80 | 84.9 | 12 |
| 13 | 8.0 | 178 | 88 S | 1 040 | | 88.9 | 78 | 588 | | 13.7 | 81 | 72.2 | 13 |
| 14 | | 123 | 84 | 880 | | 84.8 | 88 | 385 | 20.0 | 9.87 | 80 S | 51.7 | 14 |
| 15 | | 118 | 83 | 821 | | 87.9 | 87 | 335 | | 8.08 | 81 | 35.8 | 15 |
| 16 | | 240 | 89 | 1 850 | | 71.1 | 70 | 430 | 25.0 | 8.82 | 43 S | 26.8 | 16 |
| 17 | 9.0 | 275 | 71 S | 1 690 | | 80.8 | 84 | 280 | | 8.72 | 44 | 21.7 | 17 |
| 18 | | 191 | 86 | 1 090 | | 35.6 | 82 | 181 | | 9.10 | 89 | 81.9 | 18 |
| 19 | | 128 | 86 | 735 | 13.0 | 28.9 | 86 S | 118 | | 7.38 | 84 | 40.3 | 19 |
| 20 | | 92.1 | 85 | 817 | | 28.1 | 46 | 112 | | 5.96 | 81 | 31.4 | 20 |
| 21 | | 88.9 | 86 | 884 | | 28.4 | 48 | 113 | 22.0 | 4.83 | 89 S | 23.6 | 21 |
| 22 | | 122 | 88 | 895 | | 28.1 | 48 | 104 | | 3.44 | 87 | 15.9 | 22 |
| 23 | 11.0 | 137 | 87 S | 783 | | 24.6 | 48 | 87.6 | | 3.18 | 87 | 15.6 | 23 |
| 24 | | 138 | 87 | 729 | | 25.0 | 48 | 88.4 | | 2.84 | 86 | 12.3 | 24 |
| 25 | | 143 | 84 | 1 040 | | 22.8 | 46 | 80.8 | | 2.24 | 85 | 10.6 | 25 |
| 26 | | 186 | 84 | 1 430 | | 24.8 | 88 | 118 | | 2.80 | 88 | 13.9 | 26 |
| 27 | | 183 | 88 | 788 | | 27.8 | 72 | 173 | 24.0 | 4.78 | 82 S | 28.4 | 27 |
| 28 | 8.0 | 111 | 88 S | 837 | | 25.1 | 88 | 143 | | 8.01 | 87 | 28.6 | 28 |
| 29 | 12.0 | 88.8 | 70 S | 538 | 15.0 | 21.5 | 83 S | 117 | | 8.88 | 81 | 28.0 | 29 |
| 30 | | 80.8 | 84 | 888 | | 36.7 | 70 | 185 | | 4.43 | 88 | 17.8 | 30 |
| 31 | | | | | | 51.1 | 105 | 484 | | | | | 31 |
| TOTAL | | 4 240.5 | | 27 850 | | 3 821.4 | | 33 984.8 | | 382.11 | | 2 238.7 | TOTAL |
| MEAN | | 141 | | 932 | | 91.0 | | 773 | | 12.7 | | 74.8 | MEAN |

ONTARIO

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 3.52 | 41 | 12.6 | | 2.85 | 42 | 9.02 | | 1.21 | 36 S | 3.76 | 1 |
| 2 | | 3.46 | 37 | 11.1 | 33.0 | 3.53 | 41 S | 8.98 | | 1.09 | 38 | 3.38 | 2 |
| 3 | | 3.40 | 36 | 10.8 | | 3.03 | 41 | 7.18 | | 0.966 | 38 | 3.08 | 3 |
| 4 | | 3.38 | 35 | 10.2 | | 1.72 | 41 | 6.08 | | 1.10 | 38 | 3.70 | 4 |
| 5 | 26.0 | 3.86 | 34 S | 11.4 | | 1.50 | 42 | 5.44 | | 1.09 | 38 | 3.39 | 5 |
| 6 | | 3.31 | 33 | 9.44 | | 1.23 | 42 | 4.46 | | 1.18 | 38 | 3.86 | 6 |
| 7 | | 3.38 | 34 | 9.86 | | 1.27 | 42 | 4.81 | 29.0 | 1.06 | 38 S | 3.38 | 7 |
| 8 | | 2.78 | 36 | 8.41 | 33.0 | 1.48 A | 43 S | 5.42 | | 0.968 | 38 | 3.05 | 8 |
| 9 | | 2.32 | 37 | 7.16 | | 3.33 | 44 | 12.3 | | 1.03 | 38 | 3.20 | 9 |
| 10 | | 2.14 | 38 | 7.03 | | 2.97 | 47 | 12.1 | | 0.938 | 38 | 2.81 | 10 |
| 11 | 28.0 | 2.03 | 39 S | 6.84 | | 2.02 | 49 | 8.55 | | 0.883 | 38 | 2.88 | 11 |
| 12 | | 1.86 | 40 | 6.77 | | 1.58 | 52 | 7.01 | | 0.739 | 37 | 2.36 | 12 |
| 13 | | 1.44 | 40 | 4.96 | | 1.46 | 54 | 6.81 | 27.0 | 0.779 | 37 S | 2.49 | 13 |
| 14 | | 1.26 | 40 | 4.35 | | 1.29 | 54 | 6.02 | | 0.849 | 38 | 2.93 | 14 |
| 15 | | 1.73 | 48 | 6.86 | | 1.35 | 54 | 8.30 | | 0.883 | 38 | 2.74 | 15 |
| 16 | | 1.81 | 48 | 8.82 | 34.0 | 1.38 | 55 S | 8.46 | | 0.913 | 38 | 2.84 | 16 |
| 17 | | 1.75 | 48 | 7.26 | | 1.06 | 53 | 4.81 | | 1.19 | 36 | 3.70 | 17 |
| 18 | | 1.59 | 48 | 6.59 | | 1.10 | 50 | 4.75 | | 1.16 | 35 | 3.46 | 18 |
| 19 | 29.0 | 1.58 | 47 S | 6.74 | 34.0 | 1.07 | 48 S | 4.38 | | 1.11 | 34 | 3.25 | 19 |
| 20 | | 1.76 | 44 | 6.66 | 32.0 | 0.898 | 38 S | 2.89 | 24.0 | 1.16 | 34 S | 3.36 | 20 |
| 21 | | 2.14 | 41 | 7.58 | | 0.985 | 35 | 2.98 | | 1.30 | 35 | 3.93 | 21 |
| 22 | 23.0 | 2.24 | 38 S | 7.36 | | 1.09 | 35 | 3.30 | | 1.88 | 35 | 5.23 | 22 |
| 23 | | 2.02 | 38 | 6.63 | | 1.12 | 35 | 3.36 | 22.0 | 1.74 | 33 S | 4.41 | 23 |
| 24 | 31.0 | 1.84 | 37 S | 5.88 | | 1.15 | 35 | 3.35 | | 1.80 | 35 | 4.67 | 24 |
| 25 | | 1.84 | 37 | 6.24 | | 1.22 | 38 | 3.79 | | 1.38 | 35 | 4.11 | 25 |
| 26 | | 1.27 | 38 | 4.17 | | 1.01 | 38 | 3.14 | | 1.22 | 35 | 3.69 | 26 |
| 27 | | 1.20 | 39 | 4.04 | | 1.08 | 38 | 3.36 | | 1.18 | 35 | 3.48 | 27 |
| 28 | | 1.21 | 40 | 4.18 | | 1.10 | 38 | 3.42 | 20.0 | 1.14 | 34 S | 3.35 | 28 |
| 29 | | 1.48 | 40 | 5.15 | 33.0 | 1.09 | 35 S | 3.39 | | 1.07 | 35 | 3.24 | 29 |
| 30 | | 1.70 | 42 | 6.17 | | 1.04 | 35 | 3.23 | | 0.882 | 34 | 2.59 | 30 |
| 31 | | 1.77 | 43 | 6.68 | | 1.06 | 36 | 3.36 | | | | | 31 |
| TOTAL | | 86.67 | | 234.13 | | 46.713 | | 171.04 | | 33.374 | | 103.26 | TOTAL |
| MEAN | | 2.79 | | 7.33 | | 1.47 | | 5.53 | | 1.11 | | 3.41 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.987 | 35 | 2.92 | | 4.12 | 35 | 12.5 | | 83.8 | 30 | 241 | 1 |
| 2 | | 0.990 | 35 | 2.99 | | 3.90 | 35 | 11.8 | | 69.5 | 27 | 163 | 2 |
| 3 | 17.0 | 1.07 | 35 S | 3.24 | 7.0 | 7.03 | 35 S | 21.3 | | 50.0 | 25 | 108 | 3 |
| 4 | | 0.884 | 36 | 2.75 | | 21.4 | 44 | 81.4 | | 32.3 | 24 | 67.0 | 4 |
| 5 | | 2.16 | 38 | 7.16 | | 68.7 | 67 | 338 | | 39.4 | 24 | 81.6 | 5 |
| 6 | | 7.86 | 40 | 26.6 | | 112 | 93 | 503 | | 31.0 | 28 | 69.6 | 6 |
| 7 | 15.0 | 9.15 | 39 S | 30.4 | 8.0 | 94.2 | 38 S | 309 | | 47.0 | 28 | 158 | 7 |
| 8 | | 8.88 | 38 | 28.5 | | 85.0 | 35 | 197 | | 104 B | 60 | 449 | 8 |
| 9 | | 10.7 | 38 | 35.1 | | 61.0 | 35 | 124 | | 98.3 B | 43 | 365 | 9 |
| 10 | | 9.83 | 38 | 32.8 | 8.0 | 31.4 | 38 S | 95.0 | | 84.9 B | 33 | 242 | 10 |
| 11 | 13.0 | 7.62 | 38 S | 26.4 | | 30.4 | 38 | 94.6 | | 71.4 B | 26 | 173 | 11 |
| 12 | | 5.07 | 38 | 16.6 | | 55.8 | 41 | 198 | | 61.4 | 25 | 133 | 12 |
| 13 | | 4.03 | 38 | 13.2 | 8.0 | 97.8 | 37 S | 218 | | 67.4 | 25 | 169 | 13 |
| 14 | | 4.31 | 38 | 14.2 | | 44.8 | 38 | 140 | | 170 | 45 | 678 | 14 |
| 15 | 12.0 | 3.95 | 38 S | 13.3 | | 33.2 | 38 | 103 | | 241 | 74 | 1 540 | 15 |
| 16 | | 3.71 | 38 | 12.2 | | 28.5 | 37 | 94.3 | | 258 | 55 | 1 230 | 16 |
| 17 | | 3.72 | 37 | 11.5 | | 41.5 | 48 | 172 | | 234 | 35 | 708 | 17 |
| 18 | 11.0 | 3.40 | 35 S | 10.3 | | 58.7 | 64 | 278 | | 192 | 30 | 498 | 18 |
| 19 | 8.0 | 3.08 | 35 S | 8.34 | | 48.4 | 64 | 184 | | 158 | 25 | 356 | 19 |
| 20 | 10.0 | 3.84 | 34 S | 8.84 | | 41.8 | 38 | 128 | | 138 | 30 | 332 | 20 |
| 21 | | 3.83 | 34 | 8.31 | | 58.7 | 55 | 1 274 | | 98.1 | 30 | 284 | 21 |
| 22 | | 3.56 | 34 | 7.48 | | 168 | 60 | 1 150 | | 76.6 | 25 | 163 | 22 |
| 23 | | 3.56 | 34 | 7.52 | | 178 | 62 | 959 | | 87.4 B | 26 | 183 | 23 |
| 24 | 9.0 | 3.63 | 34 S | 7.73 | 2.5 | 135 | 60 S | 683 | | 83.2 B | 26 | 183 | 24 |
| 25 | | 3.61 | 35 | 8.90 | | 109 | 41 | 388 | | 88.2 B | 27 | 131 | 25 |
| 26 | | 3.80 | 36 | 8.71 | | 86.7 | 37 | 284 | | 49.6 B | 26 | 112 | 26 |
| 27 | | 3.47 | 37 | 11.1 | | 86.0 | 38 | 302 | | 43.3 B | 25 | 93.5 | 27 |
| 28 | | 4.87 | 37 | 15.6 | | 46.3 | 38 | 137 | | 38.4 B | 24 | 79.5 | 28 |
| 29 | | 5.15 | 37 | 15.5 | | 54.5 | 38 | 179 | | 31.1 B | 24 | 64.5 | 29 |
| 30 | 8.0 | 5.02 | 36 S | 15.6 | | 96.5 | 46 | 378 | | 27.6 B | 23 | 54.8 | 30 |
| 31 | | 4.34 | 36 | 13.5 | | | | | | 28.3 B | 21 | 49.7 | 31 |
| TOTAL | | 132.961 | | 427.20 | | 1 887.45 | | 7 632.9 | | 2 818.6 | | 5 138.4 | TOTAL |
| MEAN | | 4.29 | | 13.8 | | 63.2 | | 261 | | 90.9 | | 285 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 105 899.93 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 85 | |
| MAXIMUM DAILY | 173 | ON MAY 03 |
| MINIMUM DAILY | 16 | ON JAN 30 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 290 | |
| MAXIMUM DAILY | 4 750 | ON MAY 03 |
| MINIMUM DAILY | 3.36 | ON SEP 13 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 30 33 N
LONG 74 57 30 W
DRAINAGE AREA 3 810 km²
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - CONTINUOUS OPERATION SINCE JAN 1963

# PRINCE EDWARD ISLAND

## BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.826 B | 6 | 0.43 | | 0.788 | 4 | 0.27 | | 0.830 B | 5 | 0.33 | 1 |
| 2 | | 0.810 B | 5 | 0.35 | | 0.782 | 4 | 0.27 | | 0.807 | 5 | 0.31 | 2 |
| 3 | | 0.805 B | 4 | 0.28 | 3.0 | 0.798 | 6 S | 0.41 | | 1.09 | 14 | 1.32 | 3 |
| 4 | | 0.800 B | 4 | 0.28 | 3.0 | 1.27 | 75 S | 8.23 | 2.0 | 0.926 | 7 S | 0.58 | 4 |
| 5 | | 0.811 | 3 | 0.21 | | 0.988 | 12 | 1.03 | | 0.778 | 6 | 0.27 | 5 |
| 6 | 2.0 | 0.834 | 2 S | 0.14 | | 0.838 | 5 | 0.43 | | 0.890 B | 4 | 0.24 | 6 |
| 7 | | 0.826 B | 3 | 0.21 | | 0.785 | 5 | 0.34 | | 0.868 | 5 | 0.29 | 7 |
| 8 | | 0.805 B | 3 | 0.21 | | 0.746 B | 5 | 0.32 | | 0.839 | 4 | 0.22 | 8 |
| 9 | | 0.790 B | 3 | 0.20 | | 0.715 B | 5 | 0.31 | | 0.838 | 4 | 0.23 | 9 |
| 10 | | 0.783 | 2 | 0.14 | | 0.700 B | 4 | 0.24 | | 0.831 | 3 | 0.18 | 10 |
| 11 | | 0.831 | 28 | 2.25 | 2.0 | 0.688 | 3 S | 0.18 | 2.0 | 0.847 | 6 S | 0.34 | 11 |
| 12 | 4.0 | 1.55 | 75 S | 10.0 | | 0.676 | 4 | 0.23 | | 0.914 | 17 | 1.34 | 12 |
| 13 | 3.0 | 1.27 | 39 S | 4.28 | | 0.680 B | 5 | 0.29 | | 1.59 | 36 | 4.95 | 13 |
| 14 | | 1.02 | 14 | 1.23 | | 0.850 B | 6 | 0.34 | 2.0 | 1.87 | 19 S | 2.74 | 14 |
| 15 | 2.0 | 0.895 | 7 S | 0.62 | | 0.845 B | 4 | 0.22 | | 1.38 | 8 | 1.08 | 15 |
| 16 | | 0.950 | 9 | 0.74 | | 0.835 B | 3 | 0.18 | | 1.09 | 8 | 0.57 | 16 |
| 17 | | 1.34 | 22 | 2.85 | | 0.830 B | 4 | 0.22 | | 0.893 | 5 | 0.42 | 17 |
| 18 | | 1.01 | 13 | 1.13 | 2.0 | 0.820 B | 3 S | 0.18 | 3.0 | 0.837 | 5 S | 0.36 | 18 |
| 19 | | 0.882 | 12 | 0.91 | | 0.810 B | 4 | 0.21 | | 1.13 | 23 | 2.29 | 19 |
| 20 | | 0.848 | 14 | 1.02 | | 0.800 B | 4 | 0.21 | | 1.82 | 108 | 17.6 | 20 |
| 21 | 1.0 | 0.880 | 12 S | 0.88 | | 0.595 B | 4 | 0.21 | 4.0 | 2.20 | 83 S | 17.7 | 21 |
| 22 | | 0.856 | 12 | 0.89 | | 0.580 B | 4 | 0.20 | | 1.89 | 85 | 16.6 | 22 |
| 23 | | 0.842 | 12 | 0.87 | | 0.570 B | 3 | 0.15 | | 1.82 | 54 | 8.98 | 23 |
| 24 | | 1.07 | 18 | 1.66 | | 0.585 B | 5 | 0.24 | | 1.55 | 26 | 3.48 | 24 |
| 25 | | 1.24 | 21 | 2.26 | | 0.580 B | 4 | 0.18 | | 1.42 | 16 | 2.21 | 25 |
| 26 | | 1.08 | 15 | 1.40 | | 0.550 B | 5 | 0.24 | 4.0 | 1.30 | 16 S | 1.80 | 26 |
| 27 | | 0.897 | 14 | 1.09 | 27.0 | 0.545 B | 5 S | 0.24 | | 1.28 | 18 | 1.83 | 27 |
| 28 | | 0.824 | 12 | 0.86 | | 0.540 B | 3 | 0.14 | | 1.27 | 11 | 1.21 | 28 |
| 29 | 2.0 | 0.788 | 10 S | 0.68 | | | | | | 1.86 | 54 | 7.84 | 29 |
| 30 | | 0.780 | 7 | 0.47 | | | | | | 1.82 | 20 | 2.80 | 30 |
| 31 | | 0.778 | 4 | 0.27 | | | | | 4.0 | 1.33 | 5 S | 0.57 | 31 |
| TOTAL | | 28.758 | | 38.40 | | 18.309 | | 15.65 | | 36.843 | | 94.63 | TOTAL |
| MEAN | | 0.927 | | 1.24 | | 0.889 | | 0.55 | | 1.19 | | 3.05 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1.25 | 5 | 0.54 | | 1.09 | 7 | 0.66 | | 1.40 | 28 | 3.14 | 1 |
| 2 | | 1.34 | 9 | 1.04 | | 1.05 | 9 | 0.82 | | 1.82 | 28 | 3.88 | 2 |
| 3 | | 1.45 | 18 | 2.26 | | 1.28 | 14 | 1.55 | | 1.40 | 27 | 3.27 | 3 |
| 4 | | 1.40 | 17 | 2.09 | | 1.14 | 10 | 0.98 | 12.0 | 1.21 | 18 S | 1.87 | 4 |
| 5 | 5.0 | 1.71 | 25 S | 3.89 | | 1.06 | 6 | 0.68 | | 1.32 | 17 | 1.94 | 5 |
| 6 | | 1.78 | 18 | 2.77 | | 0.988 | 5 | 0.43 | | 1.18 | 12 | 1.23 | 6 |
| 7 | | 1.63 | 10 | 1.32 | 9.0 | 0.952 | 4 S | 0.33 | | 1.20 | 8 | 0.83 | 7 |
| 8 | 5.0 | 1.48 | 10 S | 1.28 | | 0.913 | 4 | 0.32 | | 1.18 | 8 | 0.90 | 8 |
| 9 | | 1.51 | 10 | 1.30 | | 0.922 | 4 | 0.32 | 11.0 | 1.10 | 4 S | 0.38 | 9 |
| 10 | | 1.40 | 9 | 1.09 | | 1.38 | 30 | 3.83 | | 1.07 | 4 | 0.37 | 10 |
| 11 | | 1.43 | 9 | 1.11 | | 1.36 | 12 | 1.41 | | 1.05 | 5 | 0.45 | 11 |
| 12 | | 1.44 | 8 | 1.00 | 9.0 | 2.19 | 44 S | 8.33 | | 1.04 | 5 | 0.46 | 12 |
| 13 | | 1.35 | 7 | 0.82 | | 1.88 | 24 | 3.48 | | 1.02 | 5 | 0.44 | 13 |
| 14 | | 1.30 | 7 | 0.79 | | 1.47 | 18 | 2.28 | | 0.977 | 5 | 0.42 | 14 |
| 15 | 8.0 | 1.30 | 4 S | 0.45 | 9.0 | 1.35 | 18 S | 2.10 | | 0.987 | 4 | 0.34 | 15 |
| 16 | | 1.32 | 3 | 0.34 | | 1.37 | 11 | 1.30 | | 0.943 | 5 | 0.41 | 16 |
| 17 | | 1.28 | 3 | 0.33 | 10.0 | 1.82 | 12 S | 1.88 | | 0.913 | 7 | 0.85 | 17 |
| 18 | 8.0 | 1.38 | 4 S | 0.95 | | 1.42 | 5 | 0.61 | 15.0 | 0.891 | 10 S | 0.77 | 18 |
| 19 | | 1.41 | 15 | 2.31 | | 1.33 | 5 | 0.68 | | 0.908 | 7 | 0.85 | 19 |
| 20 | | 1.57 | 15 | 2.17 | 10.0 | 1.33 | 7 S | 0.80 | | 0.884 | 8 | 0.80 | 20 |
| 21 | | 1.30 | 7 | 0.78 | | 1.66 | 28 | 3.77 | 18.5 | 0.827 | 8 S | 0.84 | 21 |
| 22 | | 1.21 | 6 | 0.63 | | 1.36 | 15 | 1.76 | | 0.814 | 8 | 0.56 | 22 |
| 23 | | 1.17 | 6 | 0.61 | | 1.28 | 12 | 1.34 | | 0.782 | 7 | 0.47 | 23 |
| 24 | 10.0 | 1.14 | 6 S | 0.59 | | 1.22 | 12 | 1.26 | 17.0 | 0.751 | 8 S | 0.58 | 24 |
| 25 | | 1.14 | 6 | 0.59 | | 1.36 | 25 | 2.94 | | 0.784 | 8 | 0.39 | 25 |
| 26 | | 1.38 | 15 | 1.78 | | 2.25 | 79 | 15.4 | | 0.785 | 7 | 0.48 | 26 |
| 27 | | 1.23 | 10 | 1.06 | 10.0 | 1.35 | 15 S | 1.76 | | 0.741 | 7 | 0.45 | 27 |
| 26 | | 1.17 | 10 | 1.01 | 11.0 | 1.33 | 13 S | 1.49 | | 0.713 | 8 | 0.37 | 28 |
| 29 | 11.0 | 1.08 | 10 S | 0.94 | | 1.27 | 8 | 0.88 | 14.0 | 0.700 | 4 S | 0.24 | 29 |
| 30 | | 1.06 | 8 | 0.78 | | 1.30 | 9 | 0.83 | | 0.709 | 4 | 0.25 | 30 |
| 31 | | | | | | 1.26 | 8 | 0.88 | | | | | 31 |
| TOTAL | | 40.66 | | 38.38 | | 41.225 | | 84.48 | | 28.718 | | 28.90 | TOTAL |
| MEAN | | 1.35 | | 1.31 | | 1.33 | | 2.06 | | 0.990 | | 0.90 | MEAN |

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.676 | 4 | 0.23 | | 0.516 | 2 | 0.09 | 14.0 | 0.488 | 2 S | 0.08 | 1 |
| 2 | 14.0 | 0.703 | 8 S | 0.48 | | 0.539 | 3 | 0.14 | | 0.446 | 3 | 0.12 | 2 |
| 3 | | 0.772 | 6 | 0.63 | | 0.545 | 4 | 0.19 | 14.0 | 0.433 | 7 S | 0.26 | 3 |
| 4 | | 0.854 | 7 | 0.40 | 18.0 | 0.527 | 4 S | 0.18 | | 0.412 | 3 | 0.11 | 4 |
| 5 | | 0.851 | 5 | 0.28 | | 0.488 | 4 | 0.17 | | 0.384 | 2 | 0.07 | 5 |
| 6 | 18.5 | 0.872 | 8 S | 0.35 | 15.0 | 0.477 | 7 S | 0.29 | 14.0 | 0.378 | 2 S | 0.07 | 6 |
| 7 | | 0.788 | 7 | 0.48 | 15.0 | 0.578 | 3 S | 0.18 | | 0.368 | 2 | 0.08 | 7 |
| 8 | | 0.628 | 5 | 0.26 | | 0.572 | 3 | 0.18 | | 0.347 | 3 | 0.09 | 8 |
| 9 | 18.0 | 0.647 | 6 S | 0.34 | | 0.526 | 3 | 0.14 | 14.0 | 0.323 | 3 S | 0.08 | 9 |
| 10 | | 0.655 | 5 | 0.26 | | 0.533 | 3 | 0.14 | | 0.308 | 4 | 0.13 | 10 |
| 11 | | 0.613 | 4 | 0.21 | | 0.482 | 4 | 0.17 | | 0.281 | 4 | 0.12 | 11 |
| 12 | 14.0 | 0.606 | 4 S | 0.21 | 15.0 | 0.506 | 8 S | 0.47 | | 0.274 | 3 | 0.10 | 12 |
| 13 | | 0.626 | 4 | 0.22 | 15.0 | 0.756 | 17 S | 1.11 | | 0.358 | 3 | 0.09 | 13 |
| 14 | 15.0 | 0.736 | 15 S | 0.86 | | 0.545 | 3 | 0.14 | 14.0 | 0.328 | 4 S | 0.11 | 14 |
| 15 | | 0.662 | 4 | 0.23 | | 0.500 | 4 | 0.17 | | 0.301 | 4 | 0.10 | 15 |
| 16 | 15.0 | 0.656 | 9 S | 0.51 | | 0.632 | 8 | 0.44 | | 0.283 | 3 | 0.08 | 16 |
| 17 | | 0.618 | 8 | 0.43 | 16.0 | 0.584 | 20 S | 0.97 | 12.0 | 0.292 | 4 S | 0.10 | 17 |
| 18 | | 0.588 | 7 | 0.36 | | 0.502 | 8 | 0.33 | 13.0 | 0.888 | 29 S | 1.67 | 18 |
| 19 | 15.0 | 0.578 | 7 S | 0.35 | | 0.528 | 5 | 0.23 | | 0.833 | 16 | 0.74 | 19 |
| 20 | 15.0 | 0.648 | 4 S | 0.19 | 15.0 | 0.538 | 10 S | 0.46 | 13.0 | 0.408 | 8 S | 0.21 | 20 |
| 21 | | 0.658 | 3 | 0.14 | | 0.554 | 5 | 0.24 | | 0.358 | 5 | 0.15 | 21 |
| 22 | 16.0 | 1.15 | 54 S | 5.37 | | 0.478 | 3 | 0.12 | | 0.383 | 5 | 0.16 | 22 |
| 23 | 14.0 | 2.05 | 70 S | 12.4 | 15.0 | 0.448 | 2 S | 0.08 | 14.0 | 0.367 | 15 S | 0.50 | 23 |
| 24 | | 0.818 | 6 | 0.58 | | 0.417 | 2 | 0.07 | | 0.358 | 4 | 0.12 | 24 |
| 25 | | 0.702 | 5 | 0.48 | | 0.401 | 2 | 0.07 | | 0.436 | 5 | 0.18 | 25 |
| 26 | 15.0 | 0.623 | 5 S | 0.27 | | 0.400 | 2 | 0.07 | | 0.343 | 3 | 0.08 | 26 |
| 27 | | 0.598 | 4 | 0.21 | 15.0 | 0.414 | 4 S | 0.14 | 14.0 | 0.345 | 3 S | 0.09 | 27 |
| 28 | | 0.588 | 3 | 0.15 | | 0.406 | 2 | 0.07 | | 0.351 | 3 | 0.09 | 28 |
| 29 | | 0.567 | 3 | 0.15 | | 0.407 | 2 | 0.07 | | 0.338 | 3 | 0.09 | 29 |
| 30 | 15.0 | 0.566 | 3 S | 0.15 | 15.0 | 0.388 | 2 S | 0.07 | 14.0 | 0.335 | 3 S | 0.09 | 30 |
| 31 | | 0.546 | 4 | 0.19 | | 0.396 | 3 | 0.10 | | | | | 31 |
| TOTAL | | 21.626 | | 27.38 | | 15.789 | | 7.15 | | 11.481 | | 5.98 | TOTAL |
| MEAN | | 0.704 | | 0.88 | | 0.509 | | 0.23 | | 0.382 | | 0.20 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.320 | 3 | 0.08 | 6.0 | 0.383 | 3 S | 0.09 | | 0.481 | 2 | 0.08 | 1 |
| 2 | | 0.331 | 4 | 0.11 | | 0.388 | 3 | 0.09 | 3.0 | 0.478 | 3 S | 0.12 | 2 |
| 3 | | 0.328 | 3 | 0.08 | | 0.384 | 3 | 0.08 | | 0.488 | 3 | 0.13 | 3 |
| 4 | 14.0 | 0.327 | 4 S | 0.11 | 6.0 | 0.358 | 2 S | 0.06 | | 0.476 | 2 | 0.08 | 4 |
| 5 | 13.0 | 0.486 | 17 S | 0.71 | | 0.348 | 1 | 0.03 | | 0.467 | 1 | 0.04 | 5 |
| 6 | 14.0 | 0.448 | 23 S | 0.88 | 7.0 | 0.888 | 33 S | 2.53 | 3.0 | 0.480 | 2 S | 0.08 | 6 |
| 7 | | 0.363 | 7 | 0.21 | 7.0 | 0.801 | 44 S | 3.05 | | 0.538 | 4 | 0.22 | 7 |
| 8 | | 0.336 | 3 | 0.09 | 8.0 | 0.488 | 11 S | 0.47 | | 0.558 | 3 | 0.14 | 8 |
| 9 | | 0.337 | 3 | 0.08 | | 0.448 | 8 | 0.31 | 3.0 | 0.480 | 2 S | 0.08 | 9 |
| 10 | | 0.338 | 3 | 0.08 | | 0.417 | 7 | 0.25 | | 0.487 | 3 | 0.13 | 10 |
| 11 | 10.0 | 0.321 | 4 S | 0.11 | 8.0 | 0.433 | 18 S | 0.80 | | 0.487 | 3 | 0.13 | 11 |
| 12 | | 0.324 | 4 | 0.11 | 8.0 | 0.536 | 10 S | 0.48 | | 0.487 | 5 | 0.21 | 12 |
| 13 | | 0.328 | 4 | 0.11 | 8.0 | 0.505 | 5 S | 0.25 | 4.0 | 0.574 | 9 S | 0.45 | 13 |
| 14 | 14.0 | 0.367 | 4 S | 0.13 | | 0.484 | 4 | 0.17 | 5.0 | 1.83 | 33 S | 5.22 | 14 |
| 15 | | 0.388 | 5 | 0.18 | | 0.462 | 3 | 0.11 | 5.0 | 1.17 | 38 S | 2.63 | 15 |
| 16 | | 0.380 | 5 | 0.18 | 5.0 | 0.433 | 3 S | 0.11 | 5.0 | 1.21 | 21 S | 2.20 | 16 |
| 17 | | 0.364 | 5 | 0.18 | 5.0 | 0.770 | 18 S | 1.20 | | 0.833 | 7 | 0.50 | 17 |
| 18 | 10.0 | 0.333 | 8 S | 0.17 | 5.0 | 0.514 | 4 S | 0.18 | | 0.732 | 6 | 0.38 | 18 |
| 19 | 8.0 | 0.330 | 10 S | 0.28 | | 0.444 | 2 | 0.08 | | 0.718 | 5 | 0.31 | 19 |
| 20 | | 0.333 | 5 | 0.14 | | 0.428 | 3 | 0.11 | | 0.700 B | 4 | 0.24 | 20 |
| 21 | 7.0 | 0.338 | 5 S | 0.14 | | 0.410 | 2 | 0.07 | | 0.680 B | 4 | 0.24 | 21 |
| 22 | | 0.333 | 5 | 0.14 | 4.0 | 0.458 | 2 S | 0.08 | | 0.650 B | 4 | 0.23 | 22 |
| 23 | | 0.336 | 4 | 0.12 | | 0.455 | 3 | 0.12 | | 0.645 B | 4 | 0.22 | 23 |
| 24 | | 0.330 | 3 | 0.08 | | 0.421 | 3 | 0.11 | | 0.630 B | 4 | 0.22 | 24 |
| 25 | 7.0 | 0.358 | 3 S | 0.08 | 4.0 | 0.480 | 5 S | 0.21 | | 0.618 B | 4 | 0.21 | 25 |
| 26 | | 0.443 | 5 | 0.19 | 4.0 | 0.578 | 4 S | 0.20 | | 0.605 B | 4 | 0.21 | 26 |
| 27 | | 0.388 | 3 | 0.10 | | 0.481 | 1 | 0.04 | | 0.590 B | 4 | 0.20 | 27 |
| 28 | 7.0 | 0.360 | 4 S | 0.12 | | 0.478 | 2 | 0.08 | | 0.575 B | 4 | 0.20 | 28 |
| 29 | | 0.347 | 3 | 0.08 | 3.0 | 0.487 | 2 S | 0.08 | | 1.02 | 5 | 0.44 | 29 |
| 30 | | 0.338 | 3 | 0.08 | | 0.508 | 1 | 0.04 | | 0.986 | 4 | 0.34 | 30 |
| 31 | | 0.344 | 4 | 0.12 | | | | | 4.0 | 0.810 | 2 S | 0.14 | 31 |
| TOTAL | | 10.835 | | 5.27 | | 14.846 | | 11.27 | | 21.810 | | 15.02 | TOTAL |
| MEAN | | 0.383 | | 0.17 | | 0.488 | | 0.38 | | 0.897 | | 0.82 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 348.42 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 14 | |
| MAXIMUM DAILY | 108 | ON MAR 20 |
| MINIMUM DAILY | 1 | ON NOV 05 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 0.95 | |
| MAXIMUM DAILY | 17.7 | ON MAR 21 |
| MINIMUM DAILY | 0.03 | ON NOV 05 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 12 07 N
LONG 63 39 23 W
DRAINAGE AREA 33.1 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CD005

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.208 | 3 | 0.05 | | 0.188 | 4 | 0.07 | | 0.173 | 5 | 0.07 | 1 |
| 2 | | 0.205 | 3 | 0.05 | | 0.188 | 4 | 0.08 | | 0.182 | 7 | 0.12 | 2 |
| 3 | | 0.198 | 3 | 0.05 | | 0.260 | 27 | 0.61 | | 0.344 | 12 | 0.35 | 3 |
| 4 | | 0.182 B | 2 | 0.03 | 4.0 | 0.718 | 99 S | 6.14 | | 0.272 | 10 | 0.24 | 4 |
| 5 | 1.5 | 0.182 | 2 S | 0.03 | | 0.303 | 8 | 0.21 | 2.0 | 0.238 | 4 S | 0.08 | 5 |
| 6 | | 0.173 | 1 | 0.01 | | 0.241 | 3 | 0.06 | | 0.208 | 3 | 0.05 | 6 |
| 7 | | 0.178 | 2 | 0.03 | | 0.218 | 4 | 0.07 | | 0.214 | 3 | 0.05 | 7 |
| 8 | | 0.178 | 2 | 0.03 | | 0.218 | 4 | 0.08 | | 0.208 | 3 | 0.05 | 8 |
| 9 | 1.5 | 0.170 | 3 E | 0.04 | | 0.211 | 4 | 0.07 | | 0.208 | 4 | 0.07 | 9 |
| 10 | | 0.164 | 3 | 0.04 | | 0.187 | 4 | 0.07 | | 0.198 | 4 | 0.07 | 10 |
| 11 | | 0.188 | 3 | 0.05 | | 0.184 | 2 | 0.03 | | 0.205 | 5 | 0.09 | 11 |
| 12 | | 0.210 | 3 | 0.05 | | 0.178 B | 2 | 0.03 | | 0.383 | 23 | 0.72 | 12 |
| 13 | | 0.207 | 3 | 0.05 | | 0.178 B | 3 | 0.05 | | 0.958 | 34 | 2.81 | 13 |
| 14 | | 0.188 | 3 | 0.05 | | 0.178 B | 3 | 0.05 | | 0.857 | 21 | 1.19 | 14 |
| 15 | | 0.207 A | 3 | 0.06 | 3.5 | 0.182 B | 2 S | 0.03 | 3.0 | 0.430 | 5 S | 0.19 | 15 |
| 16 | | 0.210 E | 4 | 0.07 | | 0.172 | 2 | 0.03 | | 0.351 | 4 | 0.12 | 16 |
| 17 | | 0.202 E | 3 | 0.05 | | 0.188 | 2 | 0.03 | | 0.287 | 3 | 0.07 | 17 |
| 18 | | 0.200 E | 4 | 0.07 | | 0.187 | 2 | 0.03 | | 0.283 | 3 | 0.08 | 18 |
| 19 | | 0.186 E | 4 | 0.07 | 3.5 | 0.187 | 2 S | 0.03 | 5.5 | 1.41 | 20 S | 2.44 | 19 |
| 20 | | 0.192 E | 4 | 0.07 | | 0.188 | 2 | 0.03 | | 3.43 | 75 | 22.3 | 20 |
| 21 | | 0.188 A | 5 | 0.08 | | 0.185 B | 3 | 0.04 | | 0.930 | 39 | 3.13 | 21 |
| 22 | 0.5 | 0.192 | 12 S | 0.20 | | 0.185 B | 4 | 0.06 | | 0.902 | 19 | 0.43 | 22 |
| 23 | | 0.198 | 8 | 0.14 | | 0.183 B | 4 | 0.06 | 5.0 | 0.401 | 5 S | 0.17 | 23 |
| 24 | | 0.201 | 10 | 0.28 | | 0.183 B | 5 | 0.07 | | 0.336 | 4 | 0.12 | 24 |
| 25 | | 0.338 | 13 | 0.38 | | 0.181 B | 6 | 0.08 | | 0.298 | 3 | 0.08 | 25 |
| 26 | | 0.247 | 12 | 0.26 | 2.5 | 0.181 B | 5 S | 0.07 | | 0.291 | 3 | 0.08 | 26 |
| 27 | | 0.210 | 6 | 0.15 | | 0.188 B | 5 | 0.07 | | 0.285 | 3 | 0.07 | 27 |
| 28 | | 0.206 B | 5 | 0.08 | | 0.188 B | 6 | 0.07 | | 0.231 | 2 | 0.04 | 28 |
| 29 | | 0.202 B | 4 | 0.07 | | | | | | 0.274 | 2 | 0.05 | 29 |
| 30 | 3.0 | 0.198 B | 4 S | 0.07 | | | | | | 0.257 | 3 | 0.07 | 30 |
| 31 | | 0.188 B | 3 | 0.05 | | | | | | 0.230 | 2 | 0.04 | 31 |
| TOTAL | | 6.330 | | 2.85 | | 5.784 | | 6.30 | | 14.626 | | 35.36 | TOTA |
| MEAN | | 0.204 | | 0.09 | | 0.208 | | 0.30 | | 0.472 | | 1.14 | MEA |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.5 | 0.255 | 1 S | 0.02 | | 0.221 | 2 | 0.04 | 10.0 | 0.343 | 47 S | 1.38 | 1 |
| 2 | | 0.238 | 0 | 0 | | 0.210 | 3 | 0.05 | | 0.276 | 5 | 0.14 | 2 |
| 3 | | 0.218 | 0 | 0 | | 0.284 | 7 | 0.18 | | 0.281 | 2 | 0.05 | 3 |
| 4 | 6.0 | 0.272 | 11 S | 0.25 | | 0.262 | 7 | 0.18 | | 0.276 | 4 | 0.10 | 4 |
| 5 | | 0.971 | 85 | 8.45 | 11.0 | 0.233 | 8 S | 0.10 | | 0.267 | 4 | 0.10 | 5 |
| 6 | | 0.504 | 31 | 1.35 | | 0.201 | 3 | 0.05 | 10.5 | 0.260 | 11 S | 0.27 | 6 |
| 7 | | 0.378 | 11 | 0.35 | | 0.188 | 2 | 0.03 | | 0.290 | 5 | 0.13 | 7 |
| 8 | | 0.361 | 6 | 0.18 | | 0.220 | 3 | 0.06 | | 0.308 | 4 | 0.11 | 8 |
| 9 | | 0.387 | 5 | 0.18 | | 0.238 | 3 | 0.06 | | 0.278 | 4 | 0.10 | 9 |
| 10 | 7.5 | 0.309 | 3 S | 0.08 | | 0.207 | 2 | 0.04 | | 0.255 | 4 | 0.08 | 10 |
| 11 | | 0.317 | 3 | 0.08 | | 0.205 | 2 | 0.04 | 13.0 | 0.255 A | 10 S | 0.22 | 11 |
| 12 | 8.5 | 0.324 | 3 S | 0.08 | 9.0 | 0.240 | 2 S | 0.04 | | 0.230 E | 5 | 0.12 | 12 |
| 13 | | 0.298 | 3 | 0.08 | | 0.243 | 3 | 0.06 | | 0.232 E | 5 | 0.10 | 13 |
| 14 | | 0.287 | 3 | 0.07 | | 0.241 | 3 | 0.06 | | 0.235 E | 4 | 0.08 | 14 |
| 15 | | 0.249 | 3 | 0.06 | 8.0 | 0.237 | 3 S | 0.06 | | 0.232 E | 4 | 0.08 | 15 |
| 16 | | 0.274 | 3 | 0.07 | | 0.244 | 3 | 0.06 | | 0.238 E | 4 | 0.08 | 16 |
| 17 | | 0.282 | 4 | 0.10 | | 0.272 | 4 | 0.09 | | 0.222 E | 4 | 0.08 | 17 |
| 18 | | 0.308 | 3 | 0.08 | | 0.245 | 4 | 0.08 | | 0.220 E | 3 | 0.08 | 18 |
| 19 | | 0.286 | 3 | 0.08 | | 0.238 | 3 | 0.06 | | 0.238 E | 3 | 0.08 | 19 |
| 20 | | 0.258 | 3 | 0.07 | | 0.222 | 3 | 0.06 | | 0.230 E | 3 | 0.08 | 20 |
| 21 | | 0.267 | 3 | 0.07 | | 0.232 | 3 | 0.06 | 13.5 | 0.235 A | 3 S | 0.08 | 21 |
| 22 | | 0.279 | 4 | 0.10 | 9.0 | 0.240 | 3 S | 0.06 | | 0.210 | 4 | 0.07 | 22 |
| 23 | | 0.261 | 3 | 0.07 | | 0.206 | 3 | 0.05 | | 0.222 | 4 | 0.08 | 23 |
| 24 | | 0.262 | 3 | 0.07 | | 0.221 | 4 | 0.08 | | 0.249 | 4 | 0.09 | 24 |
| 25 | | 0.248 | 3 | 0.06 | | 0.241 | 4 | 0.08 | | 0.267 | 4 | 0.09 | 25 |
| 26 | 11.0 | 0.237 | 3 S | 0.08 | | 0.268 | 8 | 0.14 | | 0.252 | 4 | 0.09 | 26 |
| 27 | | 0.227 | 3 | 0.08 | 9.5 | 0.261 | 4 S | 0.08 | | 0.235 | 4 | 0.08 | 27 |
| 28 | | 0.220 | 3 | 0.08 | | 0.264 | 4 | 0.09 | 11.5 | 0.225 | 5 S | 0.10 | 28 |
| 29 | | 0.233 | 4 | 0.08 | | 0.260 | 4 | 0.08 | | 0.220 | 5 | 0.11 | 29 |
| 30 | | 0.238 | 4 | 0.08 | | 0.234 | 4 | 0.08 | | 0.222 | 4 | 0.08 | 30 |
| 31 | | | | | | 0.268 | 8 | 0.15 | | | | | 31 |
| TOTAL | | 8.188 | | 9.27 | | 7.272 | | 2.30 | | 7.488 | | 4.33 | TOTA |
| MEAN | | 0.308 | | 0.31 | | 0.235 | | 0.07 | | 0.360 | | 0.14 | MEA |

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB008

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.212 | 3 | 0.05 | | 0.210 | 2 | 0.04 | 11.5 | 0.191 | 2 S | 0.03 | 1 |
| 2 | | 0.205 | 3 | 0.05 | | 0.223 | 1 | 0.02 | | 0.188 | 2 | 0.03 | 2 |
| 3 | | 0.228 | 3 | 0.06 | | 0.197 | 2 | 0.03 | | 0.202 | 2 | 0.03 | 3 |
| 4 | | 0.248 | 4 | 0.09 | | 0.201 | 2 | 0.03 | | 0.218 | 4 | 0.08 | 4 |
| 5 | | 0.234 | 4 | 0.08 | | 0.195 | 1 | 0.02 | | 0.218 | 3 | 0.06 | 5 |
| 6 | | 0.217 | 4 | 0.07 | | 0.215 | 2 | 0.04 | | 0.194 | 3 | 0.05 | 6 |
| 7 | 13.0 | 0.212 | 3 S | 0.06 | 13.0 | 0.871 | 66 S | 4.97 | | 0.177 | 3 | 0.05 | 7 |
| 8 | | 0.201 | 2 | 0.03 | | 0.344 | 23 | 0.88 | | 0.172 | 3 | 0.04 | 8 |
| 9 | | 0.189 | 3 | 0.06 | 13.0 | 0.287 | 5 S | 0.12 | 12.5 | 0.175 | 4 S | 0.06 | 9 |
| 10 | | 0.208 | 5 | 0.09 | | 0.250 | 4 | 0.08 | | 0.185 | 3 | 0.05 | 10 |
| 11 | 12.5 | 0.180 | 4 S | 0.06 | | 0.238 | 3 | 0.08 | | 0.182 | 3 | 0.05 | 11 |
| 12 | | 0.181 | 4 | 0.07 | | 0.233 | 3 | 0.08 | | 0.178 | 3 | 0.05 | 12 |
| 13 | | 0.230 | 3 | 0.06 | | 0.221 | 2 | 0.04 | | 0.173 | 3 | 0.04 | 13 |
| 14 | | 0.203 | 3 | 0.05 | | 0.201 | 1 | 0.02 | | 0.173 | 3 | 0.04 | 14 |
| 15 | | 0.180 | 3 | 0.05 | 11.5 | 0.180 | 2 S | 0.03 | | 0.172 | 1 | 0.01 | 15 |
| 16 | | 0.182 | 2 | 0.03 | | 0.186 | 2 | 0.03 | | 0.172 | 2 | 0.03 | 16 |
| 17 | | 0.202 | 2 | 0.03 | | 0.190 | 3 | 0.05 | 9.5 | 0.171 | 2 S | 0.03 | 17 |
| 18 | 10.5 | 0.192 | 2 S | 0.03 | 10.5 | 0.182 | 2 S | 0.03 | | 0.308 | 8 | 0.21 | 18 |
| 19 | | 0.198 | 2 | 0.03 | | 0.198 | 2 | 0.03 | | 0.210 | 5 | 0.09 | 19 |
| 20 | | 0.190 | 3 | 0.05 | | 0.192 | 2 | 0.03 | | 0.178 | 4 | 0.06 | 20 |
| 21 | 11.0 | 0.186 | 3 S | 0.06 | | 0.187 | 2 | 0.03 | 10.0 | 0.177 | 4 S | 0.06 | 21 |
| 22 | | 0.188 | 3 | 0.06 | | 0.187 | 2 | 0.03 | | 0.187 | 3 | 0.05 | 22 |
| 23 | | 0.234 | 4 | 0.08 | 14.0 | 0.198 | 4 S | 0.07 | | 0.182 | 2 | 0.03 | 23 |
| 24 | | 0.218 | 4 | 0.08 | | 0.200 | 3 | 0.05 | | 0.171 | 2 | 0.03 | 24 |
| 25 | | 0.222 | 3 | 0.06 | | 0.218 | 3 | 0.06 | | 0.188 | 1 | 0.01 | 25 |
| 26 | | 0.202 | 3 | 0.05 | | 0.217 | 2 | 0.04 | | 0.187 | 1 | 0.01 | 26 |
| 27 | 11.0 | 0.200 | 3 S | 0.05 | | 0.205 | 1 | 0.02 | | 0.171 | 2 | 0.03 | 27 |
| 28 | | 0.213 | 2 | 0.04 | | 0.204 | 2 | 0.04 | | 0.187 | 2 | 0.03 | 28 |
| 29 | | 0.191 | 2 | 0.03 | | 0.191 | 2 | 0.03 | | 0.159 | 1 | 0.01 | 29 |
| 30 | | 0.190 | 2 | 0.03 | 12.0 | 0.186 | 1 S | 0.02 | 12.5 | 0.188 | 1 S | 0.01 | 30 |
| 31 | | 0.208 | 2 | 0.04 | | 0.181 | 1 | 0.02 | | | | | 31 |
| TOTAL | | 6.384 | | 1.82 | | 7.315 | | 5.83 | | 5.543 | | 1.38 | TOTAL |
| MEAN | | 0.206 | | 0.06 | | 0.233 | | 0.22 | | 0.185 | | 0.05 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.187 | 2 | 0.03 | | 0.149 | 2 | 0.03 | | 0.182 | 2 | 0.03 | 1 |
| 2 | | 0.169 | 2 | 0.03 | | 0.147 | 2 | 0.03 | | 0.176 | 2 | 0.03 | 2 |
| 3 | | 0.176 | 2 | 0.03 | | 0.152 | 2 | 0.03 | | 0.172 | 4 | 0.06 | 3 |
| 4 | | 0.173 | 2 | 0.03 | | 0.152 | 3 | 0.04 | | 0.167 | 4 S | 0.06 | 4 |
| 5 | | 0.179 | 2 | 0.03 | | 0.188 | 3 | 0.04 | | 0.186 | 3 | 0.04 | 5 |
| 6 | 10.0 | 0.178 | 2 S | 0.03 | | 0.183 | 3 S | 0.04 | | 0.181 | 4 | 0.06 | 6 |
| 7 | | 0.171 | 3 | 0.04 | | 0.188 | 3 | 0.04 | | 0.184 | 4 | 0.06 | 7 |
| 8 | | 0.170 | 3 | 0.03 | | 0.184 | 2 | 0.03 | | 0.184 | 4 | 0.06 | 8 |
| 9 | 10.0 | 0.181 | 2 S | 0.03 | | 0.183 | 3 | 0.04 | | 0.147 | 4 | 0.05 | 9 |
| 10 | | 0.183 | 2 | 0.03 | | 0.184 | 3 | 0.04 | | 0.184 | 4 | 0.05 | 10 |
| 11 | | 0.189 | 1 | 0.01 | | 0.184 | 3 | 0.04 | | 0.148 | 4 | 0.05 | 11 |
| 12 | | 0.188 | 2 | 0.03 | | 0.191 | 5 | 0.10 | | 0.149 | 4 | 0.05 | 12 |
| 13 | | 0.180 | 1 | 0.02 | | 0.198 | 8 S | 0.10 | | 0.182 | 18 | 0.28 | 13 |
| 14 | 13.0 | 0.178 | 2 S | 0.03 | | 0.178 | 4 | 0.06 | | 0.538 | 131 S | 6.05 | 14 |
| 15 | | 0.177 | 2 | 0.03 | | 0.184 | 4 | 0.06 | | 0.410 | 37 | 1.31 | 15 |
| 16 | | 0.189 | 2 | 0.03 | | 0.188 | 3 | 0.04 | | 0.272 | 8 | 0.19 | 16 |
| 17 | | 0.181 | 2 | 0.03 | | 0.188 | 2 | 0.03 | | 0.238 | 5 | 0.10 | 17 |
| 18 | | 0.181 | 2 | 0.03 | | 0.174 | 2 | 0.03 | | 0.221 | 4 S | 0.08 | 18 |
| 19 | | 0.188 | 4 | 0.06 | | 0.176 | 1 S | 0.02 | | 0.208 | 3 | 0.05 | 19 |
| 20 | 8.0 | 0.183 | 3 S | 0.04 | | 0.173 | 0 | 0 | | 0.200 | 3 | 0.05 | 20 |
| 21 | | 0.183 | 2 | 0.04 | | 0.185 | 1 | 0.01 | | 0.188 A | 3 | 0.05 | 21 |
| 22 | | 0.184 | 2 | 0.04 | | 0.183 | 1 | 0.01 | | 0.188 E | 3 | 0.05 | 22 |
| 23 | 8.5 | 0.183 | 3 S | 0.04 | | 0.185 | 1 | 0.01 | | 0.208 A | 3 | 0.05 | 23 |
| 24 | | 0.188 | 3 | 0.04 | | 0.171 | 0 | 0 | | 0.210 | 2 | 0.04 | 24 |
| 25 | | 0.188 | 3 | 0.04 | | 0.215 | 1 | 0.02 | | 0.208 | 2 | 0.04 | 25 |
| 26 | | 0.182 | 3 | 0.04 | | 0.182 | 1 | 0.02 | | 0.183 | 2 | 0.03 | 26 |
| 27 | | 0.188 | 3 | 0.04 | | 0.174 | 1 S | 0.02 | | 0.184 | 3 | 0.03 | 27 |
| 28 | 7.5 | 0.188 | 3 S | 0.03 | | 0.189 | 2 | 0.03 | | 0.183 | 3 | 0.05 | 28 |
| 29 | | 0.183 | 3 | 0.04 | | 0.175 | 1 | 0.02 | | 0.238 | 5 S | 0.10 | 29 |
| 30 | | 0.181 | 4 | 0.06 | | 0.181 | 2 | 0.03 | | 0.224 | 5 | 0.10 | 30 |
| 31 | | 0.188 | 3 | 0.04 | | | | | | 0.201 | 5 | 0.10 | 31 |
| TOTAL | | 5.680 | | 1.06 | | 5.078 | | 1.01 | | 8.476 | | 5.36 | TOTAL |
| MEAN | | 0.183 | | 0.03 | | 0.169 | | 0.03 | | 0.309 | | 0.30 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 83.48 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 11 | |
| MAXIMUM DAILY | 131 | ON DEC 14 |
| MINIMUM DAILY | 0 | ON APR 03 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 0.23 | |
| MAXIMUM DAILY | 22.2 | ON MAR 20 |
| MINIMUM DAILY | 0 | ON APR 03 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 20 49 N
LONG 63 37 58 W
DRAINAGE AREA 12.9 $km^2$
NATURAL FLOW

A - MANUAL GAUGE  B - ICE CONDITIONS  E - ESTIMATED  S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CD004

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.729 | 1 | 0.06 | | 0.602 | 3 | 0.13 | | 0.288 | 3 | 0.10 | 1 |
| 2 | | 0.727 | 1 | 0.06 | 1.5 | 0.492 | 10 S | 0.08 | | 0.428 | 4 | 0.15 | 2 |
| 3 | | 0.704 | 2 | 0.12 | | 0.732 | 35 | 2.21 | 2.0 | 1.61 | 61 S | 9.65 | 3 |
| 4 | | 0.678 | 2 | 0.12 | | 2.59 | 68 | 14.8 | | 1.24 | 11 | 1.18 | 4 |
| 5 | 0.5 | 0.673 | 2 S | 0.12 | | 0.878 | 13 | 0.95 | | 1.01 | 10 | 0.87 | 5 |
| 6 | | 0.659 | 2 | 0.11 | | 0.638 | 7 | 0.38 | | 0.740 | 11 | 0.70 | 6 |
| 7 | | 0.648 | 2 | 0.11 | | 0.605 | 5 | 0.28 | | 0.688 | 7 | 0.38 | 7 |
| 8 | | 0.633 | 2 | 0.11 | | 0.612 | 3 | 0.15 | | 0.528 | 12 | 0.65 | 8 |
| 9 | | 0.594 | 2 | 0.10 | | 0.583 | 3 | 0.15 | | 0.483 | 9 | 0.38 | 9 |
| 10 | | 0.569 | 5 | 0.29 | | 0.556 | 3 | 0.14 | | 0.463 | 7 | 0.28 | 10 |
| 11 | | 0.891 | 18 | 1.07 | | 0.544 | 7 | 0.33 | 4.0 | 0.487 | 7 S | 0.30 | 11 |
| 12 | 0.5 | 0.786 | 65 S | 4.47 | | 0.504 | 7 | 0.30 | | 1.07 | 172 | 15.9 | 12 |
| 13 | | 0.645 | 8 | 0.45 | | 0.498 E | 8 | 0.36 | | 2.90 | 326 | 81.4 | 13 |
| 14 | | 0.605 | 2 | 0.10 | | 0.490 E | 4 | 0.17 | | 2.63 | 197 | 44.8 | 14 |
| 15 | | 0.584 | 3 | 0.15 | | 0.482 | 6 | 0.25 | | 1.79 | 87 | 10.4 | 15 |
| 16 | | 0.567 | 3 | 0.15 | | 0.479 | 5 S | 0.25 | 3.0 | 1.30 | 11 S | 1.24 | 16 |
| 17 | | 0.528 | 4 | 0.22 | | 0.468 | 5 | 0.32 | 3.5 | 0.889 | 8 S | 0.68 | 17 |
| 18 | 0.5 | 0.598 | 2 S | 0.10 | | 0.455 | 5 | 0.24 | | 1.01 | 83 | 5.80 | 18 |
| 19 | | 0.596 | 1 | 0.05 | | 0.453 | 4 | 0.18 | | 4.02 | 348 | 121 | 19 |
| 20 | | 0.541 | 2 | 0.09 | | 0.448 | 5 | 0.19 | | 11.1 | 581 | 538 | 20 |
| 21 | | 0.498 | 2 | 0.09 | | 0.454 | 5 | 0.20 | | 4.05 | 115 | 40.2 | 21 |
| 22 | | 0.490 E | 2 | 0.08 | | 0.442 | 4 | 0.15 | | 2.10 | 251 | 45.5 | 22 |
| 23 | | 0.485 | 3 | 0.08 | | 0.435 E | 4 | 0.15 | | 1.83 | 94 | 14.9 | 23 |
| 24 | | 0.895 | 40 S | 3.44 | | 0.430 E | 5 | 0.22 | | 1.38 | 29 | 3.46 | 24 |
| 25 | | 1.13 | 15 | 1.55 | 1.5 | 0.428 E | 8 S | 0.30 | | 1.22 | 15 | 1.55 | 25 |
| 26 | | 0.789 | 9 | 0.80 | | 0.424 | 7 | 0.25 | | 1.15 | 13 | 1.29 | 26 |
| 27 | | 0.603 | 7 | 0.35 | | 0.418 E | 7 | 0.25 | 4.0 | 1.09 | 13 S | 1.22 | 27 |
| 28 | | 0.526 | 6 | 0.27 | | 0.405 | 5 | 0.17 | | 1.04 | 9 | 0.81 | 28 |
| 29 | | 0.517 | 7 | 0.31 | | | | | | 1.26 | 87 | 10.6 | 29 |
| 30 | | 0.508 | 3 | 0.13 | | | | | | 1.20 | 35 | 2.59 | 30 |
| 31 | | 0.492 | 3 | 0.13 | | | | | | 1.02 | 15 | 1.55 | 31 |
| TOTAL | | 19.889 | | 15.10 | | 15.441 | | 24.19 | | 52.028 | | 954.17 | TOTAL |
| MEAN | | 0.641 | | 0.49 | | 0.557 | | 0.85 | | 1.68 | | 30.8 | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.959 | 15 | 1.24 | | 1.04 | 5 | 0.45 | 10.0 | 1.78 | 384 S | 59.1 | 1 |
| 2 | | 0.884 | 11 | 0.82 | | 0.888 | 2 | 0.17 | 9.0 | 1.29 | 45 S | 5.02 | 2 |
| 3 | | 0.831 | 12 | 0.87 | | 1.38 | 43 | 5.13 | | 1.22 | 27 | 2.85 | 3 |
| 4 | 4.0 | 1.10 | 177 S | 15.5 | | 1.15 | 7 | 0.70 | | 1.18 | 26 | 2.85 | 4 |
| 5 | 5.0 | 4.13 | 864 S | 237 | | 1.08 | 8 | 0.75 | 12.0 | 1.24 | 31 S | 3.32 | 5 |
| 6 | | 2.15 | 189 | 31.4 | | 1.03 | 7 | 0.62 | | 1.19 | 20 | 2.08 | 6 |
| 7 | | 1.88 | 46 | 5.74 | | 0.983 | 8 | 0.65 | 13.0 | 1.19 | 5 S | 0.51 | 7 |
| 8 | 5.0 | 1.86 | 332 S | 47.8 | | 0.933 | 8 | 0.64 | | 1.17 | 5 | 0.51 | 8 |
| 9 | 5.0 | 1.81 | 126 S | 17.4 | | 0.831 | 6 | 0.48 | | 1.12 | 4 | 0.39 | 9 |
| 10 | | 1.42 | 19 | 2.33 | | 0.868 | 5 | 0.43 | | 1.06 | 4 | 0.37 | 10 |
| 11 | | 1.44 | 35 | 4.36 | | 0.936 | 4 | 0.32 | | 1.07 | 3 | 0.28 | 11 |
| 12 | | 1.48 | 14 | 1.79 | 7.0 | 1.17 | 84 S | 8.47 | | 1.08 | 3 | 0.27 | 12 |
| 13 | 5.0 | 1.38 | 13 S | 1.43 | 7.0 | 1.08 | 9 S | 0.85 | 12.0 | 1.04 | 3 S | 0.27 | 13 |
| 14 | | 1.32 | 11 | 1.25 | | 1.01 | 6 | 0.52 | | 1.02 | 4 | 0.35 | 14 |
| 15 | | 1.29 | 10 | 1.11 | | 0.959 | 6 | 0.50 | | 1.02 | 3 | 0.28 | 15 |
| 16 | | 1.29 | 8 | 0.89 | | 0.953 | 6 | 0.48 | | 0.975 | 3 | 0.25 | 16 |
| 17 | | 1.24 | 6 | 0.65 | 5.5 | 1.06 | 12 S | 1.10 | | 0.838 | 3 | 0.24 | 17 |
| 18 | 5.0 | 1.28 | 5 S | 0.88 | | 0.997 | 6 | 0.88 | | 0.834 | 3 | 0.24 | 18 |
| 19 | | 1.27 | 8 | 0.58 | | 0.920 | 8 | 0.66 | | 0.894 | 2 | 0.15 | 19 |
| 20 | | 1.32 | 8 | 0.88 | | 0.887 | 5 | 0.38 | | 0.871 | 2 | 0.15 | 20 |
| 21 | | 1.23 | 5 | 0.53 | | 0.843 | 6 | 0.41 | | 0.849 | 3 | 0.22 | 21 |
| 22 | | 1.17 | 4 | 0.40 | | 0.898 | 6 | 0.47 | | 0.826 | 3 | 0.21 | 22 |
| 23 | | 1.13 | 3 | 0.29 | | 0.864 | 6 | 0.37 | 14.0 | 0.797 | 6 S | 0.34 | 23 |
| 24 | | 1.11 | 3 | 0.29 | | 0.837 | 4 | 0.28 | | 0.784 | 5 | 0.34 | 24 |
| 25 | | 1.09 | 4 | 0.38 | 8.0 | 1.02 | 84 S | 5.84 | | 0.780 | 4 | 0.28 | 25 |
| 26 | | 1.12 | 4 | 0.39 | | 1.30 | 47 | 5.26 | | 0.747 | 4 | 0.28 | 26 |
| 27 | | 1.08 | 3 | 0.28 | 10.0 | 0.878 | 7 S | 0.88 | | 0.746 | 4 | 0.26 | 27 |
| 28 | | 1.04 | 3 | 0.27 | 8.0 | 0.888 | 15 S | 1.38 | | 0.737 | 4 | 0.25 | 28 |
| 29 | | 1.01 | 4 | 0.35 | | 0.884 | 17 | 1.45 | | 0.715 | 4 | 0.25 | 29 |
| 30 | | 1.01 | 4 | 0.35 | | 0.887 | 18 | 1.48 | | 0.891 | 4 | 0.34 | 30 |
| 31 | | | | | 8.0 | 1.17 | 40 S | 4.04 | | | | | 31 |
| TOTAL | | 40.924 | | 378.41 | | 31.437 | | 43.17 | | 28.933 | | 81.87 | TOTAL |
| MEAN | | 1.38 | | 12.8 | | 1.01 | | 1.38 | | 0.997 | | 2.73 | MEAN |

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0 | 0.693 | 6 S | 0.24 | | 0.511 | 14 | 0.82 | | 0.738 | 7 | 0.44 | 1 |
| 2 | | 0.709 | 6 | 0.25 | 16.0 | 0.783 | 199 S | 13.1 | | 0.681 | 5 | 0.29 | 2 |
| 3 | | 0.719 | 5 | 0.31 | 18.0 | 0.595 | 30 S | 1.84 | | 0.696 | 5 | 0.30 | 3 |
| 4 | | 0.701 | 6 | 0.24 | | 0.521 | 17 | 0.77 | | 0.672 | 5 | 0.35 | 4 |
| 5 | | 0.659 | 6 | 0.23 | | 0.465 | 15 | 0.63 | | 0.650 | 5 | 0.34 | 5 |
| 6 | | 0.698 | 10 | 0.60 | | 0.475 | 12 | 0.49 | | 0.631 | 7 | 0.38 | 6 |
| 7 | | 0.745 | 6 | 0.38 | 18.0 | 8.23 | 436 S | 235 | | 0.624 | 5 | 0.27 | 7 |
| 8 | | 0.884 | 5 | 0.39 | | 0.639 | 28 | 2.01 | | 0.628 | 6 S | 0.22 | 8 |
| 9 | | 0.880 | 8 | 0.67 | | 0.661 | 45 | 2.49 | | 0.588 | 6 | 0.20 | 9 |
| 10 | | 0.874 | 7 | 0.61 | | 1.27 | 80 | 9.88 | | 0.584 | 5 | 0.25 | 10 |
| 11 | | 0.819 | 6 | 0.21 | | 0.887 | 7 | 0.40 | | 0.597 | 5 | 0.31 | 11 |
| 12 | 14.0 | 0.893 | 5 S | 0.26 | | 0.727 | 15 | 0.94 | | 0.603 | 5 | 0.18 | 12 |
| 13 | | 0.887 | 5 | 0.30 | | 0.615 | 15 | 1.27 | | 0.590 | 5 | 0.18 | 13 |
| 14 | 12.0 | 0.885 | 5 S | 0.25 | | 0.780 | 6 | 0.28 | | 0.593 | 5 | 0.14 | 14 |
| 15 | | 0.878 | 5 | 0.25 | 14.0 | 0.788 | 9 S | 0.81 | | 0.648 | 6 | 0.19 | 15 |
| 16 | 13.5 | 0.883 | 7 S | 0.35 | 13.0 | 0.880 | 9 S | 0.88 | | 0.532 | 6 | 0.18 | 16 |
| 17 | | 0.873 | 7 | 0.35 | | 0.844 | 8 | 0.88 | | 0.510 | 6 | 0.15 | 17 |
| 18 | | 0.841 | 5 | 0.23 | 13.5 | 0.818 | 9 S | 0.84 | | 1.83 | 86 | 16.0 | 18 |
| 19 | | 0.821 | 6 | 0.18 | 11.5 | 0.785 | 8 S | 0.41 | | 0.801 | 12 | 0.83 | 19 |
| 20 | | 0.828 | 6 | 0.18 | | 0.750 | 8 | 0.38 | | 0.890 | 6 | 0.46 | 20 |
| 21 | | 0.888 | 3 | 0.15 | | 0.748 | 5 | 0.32 | 13.5 | 0.858 | 6 S | 0.34 | 21 |
| 22 | | 0.878 | 3 | 0.18 | | 0.730 | 6 | 0.25 | | 0.824 | 6 | 0.33 | 22 |
| 23 | 12.0 | 1.03 | 229 S | 20.4 | | 0.729 | 5 | 0.31 | | 0.852 | 7 | 0.40 | 23 |
| 24 | | 0.851 | 8 | 0.51 | | 0.702 | 6 | 0.24 | | 0 844 | 6 | 0.33 | 24 |
| 25 | | 0.588 | 9 | 0.46 | | 0.689 | 3 | 0.18 | | 0.841 | 6 | 0.33 | 25 |
| 26 | | 0.571 | 12 | 0.58 | | 0.687 | 3 | 0 17 | | 0.817 | 6 | 0.21 | 26 |
| 27 | | 0.564 | 12 | 0.57 | | 0.682 | 6 | 0.24 | | 0.821 | 6 | 0.32 | 27 |
| 28 | | 0.541 | 12 | 0.56 | | 0.650 | 6 | 0.23 | | 0.852 | 3 | 0.17 | 28 |
| 29 | | 0.542 | 11 | 0 52 | 11.5 | 0.684 | 8 S | 0.35 | | 0.813 | 6 | 0.21 | 29 |
| 30 | | 0.548 | 13 | 0.61 | | 0.681 | 7 | 0.40 | | 0.801 | 3 | 0.18 | 30 |
| 31 | | 0.525 | 11 | 0.50 | 11.0 | 0.660 | 8 S | 0.46 | | | | | 31 |
| TOTAL | | 18.364 | | 31.01 | | 27.784 | | 278.88 | | 20.233 | | 24.58 | TOTAL |
| MEAN | | 0.624 | | 1.00 | | 0.895 | | 8.93 | | 0.674 | | 0.82 | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.594 | 4 | 0.21 | | 0.489 | 1 | 0.04 | | 0.695 | 3 | 0.18 | 1 |
| 2 | | 0.586 | 4 | 0.20 | 4.0 | 0.484 | 1 S | 0.04 | | 0.672 | 4 | 0.23 | 2 |
| 3 | | 0.579 | 3 | 0.18 | | 0.485 | 1 | 0.04 | | 0.658 | 4 | 0.23 | 3 |
| 4 | | 0.571 | 3 | 0.15 | | 0.454 | 3 | 0.12 | | 0.625 | 4 | 0.22 | 4 |
| 5 | | 0.571 | 8 | 0.35 | | 0.441 | 3 | 0 11 | | 0.620 | 5 | 0.27 | 5 |
| 6 | | 0.561 | 4 | 0.23 | | 0.537 | 5 | 0.23 | | 0.637 | 4 | 0.22 | 6 |
| 7 | | 0.608 | 4 | 0.21 | | 0.585 | 6 | 0.40 | | 0.684 | 17 | 1.30 | 7 |
| 8 | | 0.588 | 4 | 0.20 | 4.0 | 0.488 | 7 S | 0.30 | | 0 780 | 8 | 0.41 | 8 |
| 9 | | 0.548 | 3 | 0.14 | | 0.477 | 6 | 0.25 | | 0.683 | 9 | 0.53 | 9 |
| 10 | | 0.560 | 7 | 0.15 | | 0.480 | 5 | 0.20 | | 0.712 | 6 | 0.35 | 10 |
| 11 | | 0.551 | 3 | 0.14 | | 0.468 | 6 | 0.24 | | 0 672 | 4 | 0.23 | 11 |
| 12 | | 0.531 | 2 | 0.09 | | 0.513 | 6 | 0.35 | | 0.627 | 6 | 0.27 | 12 |
| 13 | | 0.553 | 3 | 0.14 | | 0.588 | 7 | 0.35 | | 0.634 | 70 | 5.04 | 13 |
| 14 | | 0.581 | 3 | 0.18 | | 0.479 | 4 | 0.17 | 1.0 | 3.14 | 397 S | 80 8 | 14 |
| 15 | | 0.558 | 3 | 0.14 | 2.0 | 0.438 | 2 S | 0.08 | | 1.90 | 11 | 1.81 | 15 |
| 16 | | 0.550 | 3 | 0.14 | | 0 458 | 2 | 0.08 | | 1 82 | 14 | 1 98 | 16 |
| 17 | | 0.530 | 2 | 0.08 | | 0 505 | 13 | 0.88 | | 1 42 | 3 | 0.37 | 17 |
| 18 | | 0.528 | 2 | 0.09 | | 0.577 | 5 | 0.30 | | 1.36 | 3 | 0.35 | 18 |
| 19 | | 0.510 | 3 | 0 13 | | 0.555 | 4 | 0.19 | | 1.30 | 3 | 0.32 | 19 |
| 20 | 6.5 | 0.488 | 3 S | 0.13 | | 0.498 | 5 | 0.21 | | 1.28 | 3 | 0.33 | 20 |
| 21 | | 0.503 | 3 | 0.13 | | 0.493 | 5 | 0.21 | | 1.22 | 4 | 0.42 | 21 |
| 22 | | 0.503 | 3 | 0.13 | | 0.534 | 5 | 0.23 | | 1.21 | 4 | 0.42 | 22 |
| 23 | | 0.529 | 3 | 0.14 | | 0.583 | 4 | 0 19 | | 1.22 | 4 | 0.42 | 23 |
| 24 | | 0.531 | 3 | 0.14 | | 0.514 | 3 | 0.13 | | 1.18 | 5 | 0.51 | 24 |
| 25 | | 0.527 | 3 | 0.14 | | 0.770 | 11 | 0.73 | | 1.08 B | 7 | 0.88 | 25 |
| 26 | | 0.539 | 3 | 0.14 | | 0 778 | 5 | 0.34 | | 1.05 B | 10 | 0.91 | 26 |
| 27 | | 0.523 | 3 | 0.08 | | 0 849 | 3 | 0.17 | 1.0 | 1.02 B | 10 S | 0.88 | 27 |
| 28 | | 0.500 | 2 | 0.08 | | 0.833 | 3 | 0 16 | | 1.04 | 8 | 0.72 | 28 |
| 29 | | 0.486 | 3 | 0.13 | | 0.826 | 4 | 0.32 | | 1.37 | 41 | 4.85 | 29 |
| 30 | | 0.493 | 3 | 0.08 | | 0 747 | 9 | 0.58 | | 1.22 | 10 | 1.05 | 30 |
| 31 | | 0.478 | 2 | 0.08 | | | | | | 1.08 | 5 | 0.46 | 31 |
| TOTAL | | 16.836 | | 4.53 | | 15.328 | | 7.35 | | 33 789 | | 106.33 | TOTAL |
| MEAN | | 0 548 | | 0.15 | | 0.844 | | 0.35 | | 1.09 | | 3.43 | MEAN |

SUMMARY FOR THE YEAR 1983

TOTAL SUSPENDED SEDIMENT LOAD 1 047.64 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

| | | |
|---|---|---|
| MEAN | 89 | |
| MAXIMUM DAILY | 804 | ON APR 06 |
| MINIMUM DAILY | 1 | ON JAN 01 |

SUSPENDED SEDIMENT LOAD(t/d)

| | | |
|---|---|---|
| MEAN | 5.34 | |
| MAXIMUM DAILY | 535 | ON MAR 30 |
| MINIMUM DAILY | 0.04 | ON NOV 01 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 33 35 N
LONG 63 30 35 W
DRAINAGE AREA 45.4 $km^2$
NATURAL FLOW

B - ICE CONDITIONS

B - SAMPLE(S) COLLECTED THIS DAY

# SASKATCHEWAN

## BURNTBUT BROOK NEAR ARBORFIELD - STATION NO. 05KD005

### SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 0 8 | | | 1 |
| 2 | | | | | | | | | | 0 8 | | | 2 |
| 3 | | | | | | | | | | 0 8 | | | 3 |
| 4 | | | | | | | | | | 0 8 | | | 4 |
| 5 | | | | | | | | | | 0 8 | | | 5 |
| 6 | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | 0 8 | | | 7 |
| 8 | | | | | | | | | | 0 8 | | | 8 |
| 9 | | | | | | | | | | 0 8 | | | 9 |
| 10 | | | | | | | | | | 0 8 | | | 10 |
| 11 | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | 0 8 | | | 12 |
| 13 | | | | | | | | | | 0 8 | | | 13 |
| 14 | | | | | | | | | | 0 8 | | | 14 |
| 15 | | | | | | | | | | 0 8 | | | 15 |
| 16 | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | 0 8 | | | 17 |
| 18 | | | | | | | | | | 0 8 | | | 18 |
| 19 | | | | | | | | | | 0 8 | | | 19 |
| 20 | | | | | | | | | | 0 8 | | | 20 |
| 21 | | | | | | | | | | | | | 21 |
| 22 | | | | | | | | | | 0 8 | | | 22 |
| 23 | | | | | | | | | | 0 8 | | | 23 |
| 24 | | | | | | | | | | 0 8 | | | 24 |
| 25 | | | | | | | | | | 0 8 | | | 25 |
| 26 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | 0 8 | | | 27 |
| 28 | | | | | | | | | | 0 8 | | | 28 |
| 29 | | | | | | | | | | 0 8 | | | 29 |
| 30 | | | | | | | | | | 0 8 | | | 30 |
| 31 | | | | | | | | | | 0 8 | | | 31 |
| TOTAL | | | | | | | | | | 0 | | | TOTA |
| MEAN | | | | | | | | | | 0 | | | MEA |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP. (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 8 | 0 | 0 | | 0.980 E | | | | 0.114 | | | 1 |
| 2 | | 0 8 | 0 | 0 | | 0.582 E | | | | 0.148 | | | 2 |
| 3 | | 0 8 | 0 | 0 | 5.0 | 0.304 A | 47 S | 0.83 | | 0.216 | | | 3 |
| 4 | | 0 8 | 0 | 0 | | 0.180 E | | | | 0.243 | | | 4 |
| 5 | | 0 8 | 0 | 0 | | 0.116 E | | | | 0.265 | | | 5 |
| 6 | | 0 8 | 0 | 0 | | 0.105 E | | | | 0.258 | | | 6 |
| 7 | | 0 8 | 0 | 0 | | 0.108 E | | | | 0.188 | | | 7 |
| 8 | | 0 8 | 0 | 0 | | 0.111 E | | | | 0.148 | | | 8 |
| 9 | | 0 8 | 0 | 0 | | 0.117 E | | | | 0.151 | | | 9 |
| 10 | | 0 8 | 0 | 0 | | 0.127 E | | | | 0.138 | | | 10 |
| 11 | | 0 8 | 0 | 0 | | 0.140 E | | | | 0.218 | | | 11 |
| 12 | | 0 8 | 0 | 0 | | 0.150 E | | | | 0.204 | | | 12 |
| 13 | | 0 8 | 0 | 0 | | 0.174 E | | | | 0.228 | | | 13 |
| 14 | | 0 8 | 0 | 0 | | 0.186 E | | | | 0.248 | | | 14 |
| 15 | | 0 8 | 0 | 0 | | 0.204 E | | | 15.0 | 0.248 | 12 S | 0.26 | 15 |
| 16 | | 0 8 | 0 | 0 | | 0.220 E | | | | 0.301 | | | 16 |
| 17 | | 0 8 | 0 | 0 | | 0.264 A | 22 S | 0.48 | | 0.339 | | | 17 |
| 18 | | 0.042 S | 5 | 0.02 | 11.0 | 0.235 | | | | 0.343 | | | 18 |
| 19 | 0.5 | 3.45 S | 334 S | 99.8 | | 0.235 | | | | 0.330 | | | 19 |
| 20 | 0.5 | 9.78 S | 508 S | 428 | | 0.268 | | | | 0.337 | | | 20 |
| 21 | 1.0 | 8.58 | 359 S | 287 | | 0.273 | | | | 0.273 | | | 21 |
| 22 | 2.0 | 5.39 | 255 S | 119 | | 0.288 | | | | 0.248 | | | 22 |
| 23 | 2.0 | 4.15 | 241 S | 86.4 | | 0.272 | | | | 0.198 | | | 23 |
| 24 | | 3.41 | 188 | 55.4 | | 0.288 | | | | 0.184 | | | 24 |
| 25 | | 2.88 | 163 | 38.8 | | 0.245 | | | | 0.209 | | | 25 |
| 26 | 3.0 | 2.88 A | 126 S | 30.8 | | 0.314 | | | | 0.298 | | | 26 |
| 27 | 3.0 | 2.47 E | 105 S | 22.4 | | 0.284 | | | | 0.288 | | | 27 |
| 28 | 4.0 | 2.08 E | 83 S | 16.8 | | 0.208 | | | | 0.291 | | | 28 |
| 29 | | 1.72 E | 84 | 12.5 | | 0.187 | | | | 0.184 | | | 29 |
| 30 | | 1.34 E | 78 | 8.88 | | 0.137 | | | | 0.177 | | | 30 |
| 31 | | | | | | 0.142 | | | | 0.166 | | | 31 |
| TOTAL | | 49.132 | | 1 213.20 | | 7.210 | | | | 5.893 | | | TOTAL |
| MEAN | | 1.84 | | 40.4 | | 0.233 | | | | 0.330 | | | MEAN |

BURNTOUT DRAIN NEAR ARBORFIELD - STATION NO. 05KD005

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.188 | | | | 0.152 | | | | 0 | | | 1 |
| 2 | | 0.159 | | | | 0.128 | | | | 0 | | | 2 |
| 3 | | 0.195 | | | | 0.105 | | | | 0 | | | 3 |
| 4 | | 0.481 | | | | 0.131 | | | | 0 | | | 4 |
| 5 | | 0.709 | | | | 0.118 | | | | 0 | | | 5 |
| 6 | | 1.07 | | | | 0.079 | | | | 0 | | | 6 |
| 7 | | 1.01 | | | | 0.080 | | | | 0 | | | 7 |
| 8 | | 0.782 | | | | 0.053 | | | | 0 | | | 8 |
| 9 | | 0.888 | | | | 0.055 | | | | 0 | | | 9 |
| 10 | | 0.883 | | | | 0.087 | | | | 0.001 | | | 10 |
| 11 | | 0.725 | | | | 0.080 | | | | 0.002 | | | 11 |
| 12 | | 1.07 | | | | 0.087 | | | | 0.003 | | | 12 |
| 13 | | 1.24 | | | | 0.075 | | | | 0.004 | | | 13 |
| 14 | | 1.35 | | | | 0.057 | | | | 0.005 | | | 14 |
| 15 | | 1.08 | | | | 0.038 | | | | 0.005 | | | 15 |
| 16 | | 0.809 | | | | 0.037 | | | | 0.005 | | | 16 |
| 17 | | 0.848 | | | | 0.044 | | | | 0.014 | | | 17 |
| 18 | | 0.520 | | | | 0.032 | | | | 0.017 | | | 18 |
| 19 | | 0.438 | | | | 0.038 | | | | 0.017 | | | 19 |
| 20 | | 0.365 | | | | 0.028 | | | | 0.016 | | | 20 |
| 21 | | 0.340 | | | | 0.021 | | | | 0.017 | | | 21 |
| 22 | | 0.327 | | | | 0.017 | | | | 0.017 | | | 22 |
| 23 | | 0.288 | | | | 0.014 | | | | 0.016 | | | 23 |
| 24 | | 0.236 | | | | 0.008 | | | | 0.015 | | | 24 |
| 25 | | 0.248 | | | | 0.005 | | | | 0.013 | | | 25 |
| 26 | | 0.259 | | | | 0.003 | | | | 0.012 | | | 26 |
| 27 | | 0.241 | | | | 0.002 | | | | 0.011 | | | 27 |
| 28 | | 0.201 | | | | 0.001 | | | | 0.008 | | | 28 |
| 29 | | 0.151 | | | | 0.001 | | | | 0.004 | | | 29 |
| 30 | | 0.184 | | | | 0 | | | | 0.004 | | | 30 |
| 31 | | 0.181 | | | | 0 | | | | | | | 31 |
| TOTAL | | 15.745 | | | | 1.551 | | | | 0.205 | | | TOTAL |
| MEAN | | 0.540 | | | | 0.050 | | | | 0.007 | | | MEAN |

| DAY | OCT TEMP. (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.008 | | | | | | | | | | | 1 |
| 2 | | 0.007 | | | | | | | | | | | 2 |
| 3 | | 0.008 | | | | | | | | | | | 3 |
| 4 | | 0.008 | | | | | | | | | | | 4 |
| 5 | | 0.013 | | | | | | | | | | | 5 |
| 6 | | 0.011 | | | | | | | | | | | 6 |
| 7 | | 0.008 | | | | | | | | | | | 7 |
| 8 | | 0.006 | | | | | | | | | | | 8 |
| 9 | | 0.003 | | | | | | | | | | | 9 |
| 10 | | 0.001 | | | | | | | | | | | 10 |
| 11 | | 0.002 | | | | | | | | | | | 11 |
| 12 | | 0.001 | | | | | | | | | | | 12 |
| 13 | | 0 | | | | | | | | | | | 13 |
| 14 | | 0 | | | | | | | | | | | 14 |
| 15 | | 0 | | | | | | | | | | | 15 |
| 16 | | 0 | | | | | | | | | | | 16 |
| 17 | | 0 | | | | | | | | | | | 17 |
| 18 | | 0 | | | | | | | | | | | 18 |
| 19 | | 0 | | | | | | | | | | | 19 |
| 20 | | 0.008 | | | | | | | | | | | 20 |
| 21 | | 0.020 | | | | | | | | | | | 21 |
| 22 | | 0.018 | | | | | | | | | | | 22 |
| 23 | | 0.010 | | | | | | | | | | | 23 |
| 24 | | 0.014 | | | | | | | | | | | 24 |
| 25 | | 0.017 | | | | | | | | | | | 25 |
| 26 | | 0.017 | | | | | | | | | | | 26 |
| 27 | | 0.018 | | | | | | | | | | | 27 |
| 28 | | 0.010 | | | | | | | | | | | 28 |
| 29 | | 0.003 | | | | | | | | | | | 29 |
| 30 | | 0 | | | | | | | | | | | 30 |
| 31 | | 0 A | | | | | | | | | | | 31 |
| TOTAL | | 0.211 | | | | | | | | | | | TOTAL |
| MEAN | | 0.007 | | | | | | | | | | | MEAN |

SUMMARY FOR THE YEAR 1983

| SUSPENDED SEDIMENT CONCENTRATION(mg/L) | | | SUSPENDED SEDIMENT LOAD(t/d) | | |
|---|---|---|---|---|---|
| MAXIMUM DAILY | 905 | ON APR 20 | MAXIMUM DAILY | 429 | ON APR 20 |
| MINIMUM DAILY | 0 | ON APR 01 | MINIMUM DAILY | 0 | ON APR 01 |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 06 15 N
LONG 103 40 45 W
DRAINAGE AREA 305 $km^2$
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BURNTBUT BROOK NEAR ARBORFIELD - STATION NO. 05KB005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1963

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.063 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 20 | 14:10 | 9.69 | 0.5 | 495 | K | 42 | 51 | 61 | 72 | 81 | 92 | 97 | 99 | 100 | | | BNW |
| APR 21 | 12:45 | 10.3 | 1.0 | 333 | R | 41 | 53 | 69 | 81 | 89 | 94 | 98 | 99 | 100 | | | BNW |

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

COTTONWOOD CREEK NEAR LUMSDEN - STATION NO. 05JF011

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 0 B | | | 1 |
| 2 | | | | | | | | | | 0 B | | | 2 |
| 3 | | | | | | | | | | 0 B | | | 3 |
| 4 | | | | | | | | | | 0 B | | | 4 |
| 5 | | | | | | | | | | 0 B | | | 5 |
| 6 | | | | | | | | | | 0 B | | | 6 |
| 7 | | | | | | | | | | 0 B | | | 7 |
| 8 | | | | | | | | | | 0 B | | | 8 |
| 9 | | | | | | | | | | 0 B | | | 9 |
| 10 | | | | | | | | | | 0 B | | | 10 |
| 11 | | | | | | | | | | 0 B | | | 11 |
| 12 | | | | | | | | | | 0 B | | | 12 |
| 13 | | | | | | | | | | 0 B | | | 13 |
| 14 | | | | | | | | | | 0 B | | | 14 |
| 15 | | | | | | | | | | 0 B | | | 15 |
| 16 | | | | | | | | | | 0 B | | | 16 |
| 17 | | | | | | | | | | 0 B | | | 17 |
| 18 | | | | | | | | | | 0 B | | | 18 |
| 19 | | | | | | | | | | 0 B | | | 19 |
| 20 | | | | | | | | | | 0 B | | | 20 |
| 21 | | | | | | | | | | 0 B | | | 21 |
| 22 | | | | | | | | | | 0 B | | | 22 |
| 23 | | | | | | | | | | 0 B | | | 23 |
| 24 | | | | | | | | | | 0 B | | | 24 |
| 25 | | | | | | | | | | 0 B | | | 25 |
| 26 | | | | | | | | | | 0 B | | | 26 |
| 27 | | | | | | | | | | 0 B | | | 27 |
| 28 | | | | | | | | | | 0 B | | | 28 |
| 29 | | | | | | | | | | 0 B | | | 29 |
| 30 | | | | | | | | | | 0 B | | | 30 |
| 31 | | | | | | | | | | 0 B | | | 31 |
| TOTAL | | | | | | | | | | 0 | | | TOTAL |
| MEAN | | | | | | | | | | 0 | | | MEAN |

| DAY | APR TEMP. (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 B | 20 | 0 | | 0.008 E | | | | 0 | | | 1 |
| 2 | | 0 B | 20 | 0 | | 0.006 E | | | | 0 | | | 2 |
| 3 | | 0 B | 20 | 0 | | 0.005 E | | | | 0 | | | 3 |
| 4 | | 0.001 B | 20 | 0 | | 0.004 E | | | | 0 | | | 4 |
| 5 | | 0.210 B | 30 | 0.54 | | 0.003 E | | | | 0 | | | 5 |
| 6 | 0.5 | 0.653 B | 43 S | 3.17 | | 0.002 E | | | | 0 | | | 6 |
| 7 | | 2.39 B | 55 | 11.4 | | 0.002 E | | | | 0 | | | 7 |
| 8 | 0.5 | 2.33 B | 51 S | 9.83 | | 0.001 E | | | | 0 | | | 8 |
| 9 | | 1.78 B | 57 | 8.77 | | 0.001 A | | | | 0 | | | 9 |
| 10 | | 1.69 B | 63 | 8.20 | | 0.002 | | | | 0 | | | 10 |
| 11 | 1.0 | 1.49 | 58 S | 7.47 | | 0.002 | | | | 0 | | | 11 |
| 12 | 2.0 | 1.25 | 46 S | 4.97 | | 0.001 | | | | 0 | | | 12 |
| 13 | | 0.841 | 32 | 2.33 | | 0.005 | | | | 0 | | | 13 |
| 14 | | 0.627 | 27 | 1.46 | | 0.013 | | | | 0 | | | 14 |
| 15 | 3.0 | 0.808 | 22 S | 1.15 | | 0.005 | | | | 0 | | | 15 |
| 16 | | 0.487 | 21 | 0.85 | | 0.005 | | | | 0 | | | 16 |
| 17 | | 0.536 | 21 | 0.97 | | 0.012 | | | | 0 | | | 17 |
| 18 | | 0.445 | 21 | 0.81 | | 0.005 | | | | 0 | | | 18 |
| 19 | | 0.472 | 20 | 0.82 | | 0.002 | | | | 0 | | | 19 |
| 20 | 8.0 | 0.474 | 22 S | 0.90 | | 0 | | | | 0 | | | 20 |
| 21 | | 0.385 | 22 | 0.67 | | 0 | | | | 0 | | | 21 |
| 22 | | 0.282 | 22 | 0.58 | | 0 | | | | 0 | | | 22 |
| 23 | | 0.226 | 21 | 0.41 | | 0.001 | | | | 0 | | | 23 |
| 24 | | 0.127 | 20 | 0.22 | | 0.002 | | | | 0.011 | | | 24 |
| 25 | | 0.077 | 20 | 0.13 | | 0 | | | | 0.003 | | | 25 |
| 26 | | 0.048 | 20 | 0.08 | | 0 | | | | 0.001 | | | 26 |
| 27 | | 0.022 | 20 | 0.04 | | 0 | | | | 0 | | | 27 |
| 28 | | 0.013 | 20 | 0.02 | | 0 | | | | 0 | | | 28 |
| 29 | | 0.012 E | 20 | 0.02 | | 0 | | | | 0 | | | 29 |
| 30 | | 0.010 E | 20 | 0.02 | | 0 | | | | 0.004 | | | 30 |
| 31 | | | | | | 0 | | | | | | | 31 |
| TOTAL | | 17.540 | | 58.81 | | 0.088 | | | | 0.015 | | | TOTAL |
| MEAN | | 0.565 | | 2.33 | | 0.003 | | | | 0.000 | | | MEAN |

BURNTOUT BROOK NEAR ARBORFIELD - STATION NO. 05KB003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT ($m^3/s$) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES | | | | | | | | | | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.063 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | |
| APR 20 | 14:10 | 0.89 | 0.5 | 495 | K | 42 | 51 | 61 | 72 | 81 | 92 | 97 | 99 | 100 | | | BNW |
| APR 21 | 12:45 | 10.3 | 1.0 | 333 | R | 41 | 53 | 69 | 81 | 89 | 94 | 98 | 99 | 100 | | | BNW |

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

COTTONWOOD CREEK NEAR LUMSDEN - STATION NO. 05JF011

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP. (°C) | JAN DAILY DISCHARGE ($m^3/s$) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP. (°C) | FEB DAILY DISCHARGE ($m^3/s$) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP. (°C) | MAR DAILY DISCHARGE ($m^3/s$) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 0 B | | | 1 |
| 2 | | | | | | | | | | 0 B | | | 2 |
| 3 | | | | | | | | | | 0 B | | | 3 |
| 4 | | | | | | | | | | 0 B | | | 4 |
| 5 | | | | | | | | | | 0 B | | | 5 |
| 6 | | | | | | | | | | 0 B | | | 6 |
| 7 | | | | | | | | | | 0 B | | | 7 |
| 8 | | | | | | | | | | 0 B | | | 8 |
| 9 | | | | | | | | | | 0 B | | | 9 |
| 10 | | | | | | | | | | 0 B | | | 10 |
| 11 | | | | | | | | | | 0 B | | | 11 |
| 12 | | | | | | | | | | 0 B | | | 12 |
| 13 | | | | | | | | | | 0 B | | | 13 |
| 14 | | | | | | | | | | 0 B | | | 14 |
| 15 | | | | | | | | | | 0 B | | | 15 |
| 16 | | | | | | | | | | 0 B | | | 16 |
| 17 | | | | | | | | | | 0 B | | | 17 |
| 18 | | | | | | | | | | 0 B | | | 18 |
| 19 | | | | | | | | | | 0 B | | | 19 |
| 20 | | | | | | | | | | 0 B | | | 20 |
| 21 | | | | | | | | | | 0 B | | | 21 |
| 22 | | | | | | | | | | 0 B | | | 22 |
| 23 | | | | | | | | | | 0 B | | | 23 |
| 24 | | | | | | | | | | 0 B | | | 24 |
| 25 | | | | | | | | | | 0 B | | | 25 |
| 26 | | | | | | | | | | 0 B | | | 26 |
| 27 | | | | | | | | | | 0 B | | | 27 |
| 28 | | | | | | | | | | 0 B | | | 28 |
| 29 | | | | | | | | | | 0 B | | | 29 |
| 30 | | | | | | | | | | 0 B | | | 30 |
| 31 | | | | | | | | | | 0 B | | | 31 |
| TOTAL | | | | | | | | | | 0 | | | TOTAL |
| MEAN | | | | | | | | | | 0 | | | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE ($m^3/s$) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE ($m^3/s$) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP. (°C) | JUN DAILY DISCHARGE ($m^3/s$) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 B | 20 | 0 | | 0.008 E | | | | 0 | | | 1 |
| 2 | | 0 B | 20 | 0 | | 0.006 E | | | | 0 | | | 2 |
| 3 | | 0 B | 20 | 0 | | 0.005 E | | | | 0 | | | 3 |
| 4 | | 0.001 B | 20 | 0 | | 0.004 E | | | | 0 | | | 4 |
| 5 | | 0.210 B | 30 | 0.54 | | 0.003 E | | | | 0 | | | 5 |
| 6 | 0.5 | 0.653 B | 43 S | 3.17 | | 0.002 E | | | | 0 | | | 6 |
| 7 | | 2.39 B | 55 | 11.4 | | 0.002 E | | | | 0 | | | 7 |
| 8 | 0.5 | 2.23 B | 51 S | 9.83 | | 0.001 E | | | | 0 | | | 8 |
| 9 | | 1.78 B | 57 | 8.77 | | 0.001 A | | | | 0 | | | 9 |
| 10 | | 1.89 B | 63 | 9.20 | | 0.002 | | | | 0 | | | 10 |
| 11 | 1.0 | 1.48 | 58 S | 7.47 | | 0.002 | | | | 0 | | | 11 |
| 12 | 2.0 | 1.26 | 46 S | 4.97 | | 0.001 | | | | 0 | | | 12 |
| 13 | | 0.841 | 32 | 2.33 | | 0.005 | | | | 0 | | | 13 |
| 14 | | 0.627 | 27 | 1.48 | | 0.013 | | | | 0 | | | 14 |
| 15 | 3.0 | 0.606 | 22 S | 1.16 | | 0.005 | | | | 0 | | | 15 |
| 16 | | 0.467 | 21 | 0.85 | | 0.005 | | | | 0 | | | 16 |
| 17 | | 0.538 | 21 | 0.97 | | 0.012 | | | | 0 | | | 17 |
| 18 | | 0.445 | 21 | 0.81 | | 0.005 | | | | 0 | | | 18 |
| 19 | | 0.472 | 20 | 0.82 | | 0.002 | | | | 0 | | | 19 |
| 20 | 6.0 | 0.474 | 22 S | 0.90 | | 0 | | | | 0 | | | 20 |
| 21 | | 0.355 | 22 | 0.67 | | 0 | | | | 0 | | | 21 |
| 22 | | 0.292 | 22 | 0.56 | | 0 | | | | 0 | | | 22 |
| 23 | | 0.226 | 21 | 0.41 | | 0.001 | | | | 0 | | | 23 |
| 24 | | 0.127 | 20 | 0.22 | | 0.002 | | | | 0.011 | | | 24 |
| 25 | | 0.077 | 20 | 0.13 | | 0 | | | | 0.003 | | | 25 |
| 26 | | 0.048 | 20 | 0.08 | | 0 | | | | 0.001 | | | 26 |
| 27 | | 0.022 | 20 | 0.04 | | 0 | | | | 0 | | | 27 |
| 28 | | 0.013 | 20 | 0.02 | | 0 | | | | 0 | | | 28 |
| 29 | | 0.012 E | 20 | 0.02 | | 0 | | | | 0 | | | 29 |
| 30 | | 0.010 E | 20 | 0.02 | | 0 | | | | 0.004 | | | 30 |
| 31 | | | | | | 0 | | | | | | | 31 |
| TOTAL | | 17.540 | | 55.81 | | 0.086 | | | | 0.019 | | | TOTAL |
| MEAN | | 0.586 | | 2.23 | | 0.003 | | | | 0.000 | | | MEAN |

COTTONWOOD CREEK NEAR LUMSDEN - STATION NO. 05JF011

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.006 | | | | 0.065 | | | | 0 | | | 1 |
| 2 | | 0.007 | | | | 0.048 | | | | 0 | | | 2 |
| 3 | | 0.005 | | | | 0.045 | | | | 0 | | | 3 |
| 4 | | 0.003 | | | | 0.059 | | | | 0 | | | 4 |
| 5 | | 0.002 | | | | 0.055 | | | | 0 | | | 5 |
| 6 | | 0.002 | | | | 0.019 | | | | 0 | | | 6 |
| 7 | | 0.002 | | | | 0.006 | | | | 0 | | | 7 |
| 8 | | 0 | | | | 0.001 | | | | 0 | | | 8 |
| 9 | | 0.004 | | | | 0.002 | | | | 0.001 | | | 9 |
| 10 | | 0.118 | | | | 0.001 | | | | 0.001 | | | 10 |
| 11 | | 0.085 | | | | 0.008 | | | | 0.001 | | | 11 |
| 12 | | 0.006 | | | | 0.010 | | | | 0.002 | | | 12 |
| 13 | | 0.003 | | | | 0.009 | | | | 0.001 | | | 13 |
| 14 | | 0.017 | | | | 0.006 | | | | 0 | | | 14 |
| 15 | | 0.011 | | | | 0 | | | | 0 | | | 15 |
| 16 | | 0.013 | | | | 0 | | | | 0 | | | 16 |
| 17 | | 0.012 | | | | 0 | | | | 0 | | | 17 |
| 18 | | 0.036 | | | | 0 | | | | 0 | | | 18 |
| 19 | | 0.076 | | | | 0.001 | | | | 0 | | | 19 |
| 20 | | 0.348 | | | | 0.001 | | | | 0 | | | 20 |
| 21 | | 1.55 | | | | 0.002 | | | | 0 | | | 21 |
| 22 | | 0.382 | | | | 0.001 | | | | 0 | | | 22 |
| 23 | | 0.180 | | | | 0 | | | | 0 | | | 23 |
| 24 | | 0.245 | | | | 0 | | | | 0 | | | 24 |
| 25 | | 0.309 | | | | 0 | | | | 0 | | | 25 |
| 26 | | 0.304 | | | | 0 | | | | 0 | | | 26 |
| 27 | | 0.285 | | | | 0 | | | | 0 | | | 27 |
| 28 | | 0.204 | | | | 0 | | | | 0 | | | 28 |
| 29 | | 1.26 | | | | 0 | | | | 0 | | | 29 |
| 30 | | 0.328 | | | | 0 | | | | 0 | | | 30 |
| 31 | | 0.122 | | | | 0 | | | | | | | 31 |
| TOTAL | | 5.902 | | | | 0.340 | | | | 0.005 | | | TOTAL |
| MEAN | | 0.190 | | | | 0.011 | | | | 0.000 | | | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0 | | | | 0 | | | | | | | 1 |
| 2 | | 0 | | | | 0 | | | | | | | 2 |
| 3 | | 0 | | | | | | | | | | | 3 |
| 4 | | 0 | | | | | | | | | | | 4 |
| 5 | | 0 | | | | | | | | | | | 5 |
| 6 | | 0 | | | | | | | | | | | 6 |
| 7 | | 0 | | | | | | | | | | | 7 |
| 8 | | 0 | | | | | | | | | | | 8 |
| 9 | | 0 | | | | | | | | | | | 9 |
| 10 | | 0 | | | | | | | | | | | 10 |
| 11 | | 0 | | | | | | | | | | | 11 |
| 12 | | 0 | | | | | | | | | | | 12 |
| 13 | | 0 | | | | | | | | | | | 13 |
| 14 | | 0 | | | | | | | | | | | 14 |
| 15 | | 0 | | | | | | | | | | | 15 |
| 16 | | 0 | | | | | | | | | | | 16 |
| 17 | | 0 | | | | | | | | | | | 17 |
| 18 | | 0 | | | | | | | | | | | 18 |
| 19 | | 0 | | | | | | | | | | | 19 |
| 20 | | 0 | | | | | | | | | | | 20 |
| 21 | | 0 | | | | | | | | | | | 21 |
| 22 | | 0 | | | | | | | | | | | 22 |
| 23 | | 0 | | | | | | | | | | | 23 |
| 24 | | 0 | | | | | | | | | | | 24 |
| 25 | | 0 | | | | | | | | | | | 25 |
| 26 | | 0 | | | | | | | | | | | 26 |
| 27 | | 0 | | | | | | | | | | | 27 |
| 28 | | 0 | | | | | | | | | | | 28 |
| 29 | | 0 | | | | | | | | | | | 29 |
| 30 | | 0 | | | | | | | | | | | 30 |
| 31 | | 0 | | | | | | | | | | | 31 |
| TOTAL | | 0 | | | | | | | | | | | TOTAL |
| MEAN | | 0 | | | | | | | | | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 83 ON APR 10

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 11.4 ON APR 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 35 36 N
LONG 104 04 31 W
DRAINAGE AREA 615 $km^2$
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MOOSE JAW RIVER NEAR BURDICK - STATION NO. 05JE006

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.218 E | | | | 0.200 E | | | | 0.450 E | | | 1 |
| 2 | | 0.214 E | | | | 0.193 E | | | | 0.478 E | | | 2 |
| 3 | | 0.219 E | | | | 0.192 E | | | | 0.422 E | | | 3 |
| 4 | | 0.214 E | | | | 0.188 E | | | | 0.368 E | | | 4 |
| 5 | | 0.218 E | | | | 0.182 E | | | | 0.317 E | | | 5 |
| 6 | | 0.227 E | | | | 0.177 E | | | | 0.271 E | | | 6 |
| 7 | | 0.216 E | | | | 0.175 E | | | | 0.243 E | | | 7 |
| 8 | | 0.213 E | | | | 0.169 E | | | | 0.263 E | | | 8 |
| 9 | | 0.204 E | | | | 0.169 E | | | | 0.238 E | | | 9 |
| 10 | | 0.194 E | | | | 0.165 E | | | | 0.202 E | | | 10 |
| 11 | | 0.205 E | | | | 0.183 E | | | | 0.559 E | | | 11 |
| 12 | | 0.205 E | | | | 0.180 E | | | | 1.88 E | | | 12 |
| 13 | | 0.205 E | | | | 0.185 E | | | | 3.21 E | | | 13 |
| 14 | | 0.205 E | | | | 0.187 E | | | | 4.07 E | | | 14 |
| 15 | | 0.205 E | | | | 0.213 E | | | | 5.51 E | | | 15 |
| 16 | | 0.205 E | | | | 0.187 E | | | 0.5 | 4.49 E | 77.5 | 29.5 | 16 |
| 17 | | 0.205 E | | | | 0.183 E | | | | 3.89 E | | | 17 |
| 18 | | 0.205 E | | | | 0.158 E | | | | 3.95 E | | | 18 |
| 19 | | 0.205 E | | | | 0.128 E | | | | 3.42 E | | | 19 |
| 20 | | 0.205 E | | | | 0.161 E | | | | 2.98 E | | | 20 |
| 21 | | 0.205 E | | | | 0.183 E | | | | 3.03 E | | | 21 |
| 22 | | 0.205 E | | | | 0.230 E | | | | 3.21 E | | | 22 |
| 23 | | 0.204 E | | | | 0.276 E | | | | 3.53 E | | | 23 |
| 24 | | 0.204 E | | | | 0.274 E | | | | 3.79 E | | | 24 |
| 25 | | 0.204 E | | | | 0.268 E | | | | 3.71 E | | | 25 |
| 26 | | 0.203 E | | | | 0.311 E | | | | 3.21 E | | | 26 |
| 27 | | 0.202 E | | | | 0.283 E | | | | 2.86 E | | | 27 |
| 28 | | 0.202 E | | | | 0.280 E | | | | 2.70 E | | | 28 |
| 29 | | 0.200 E | | | | | | | | 3.57 E | | | 29 |
| 30 | | 0.200 E | | | | | | | | 3.81 E | | | 30 |
| 31 | | 0.200 E | | | | | | | | 4.11 E | | | 31 |
| TOTAL | | 6.414 | | | | 5.732 | | | | 77.843 | | | TOTAL |
| MEAN | | 0.207 | | | | 0.205 | | | | 2.51 | | | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5.55 E | 152 | 87.5 | | 12.7 | | | | 2.14 | | | 1 |
| 2 | | 6.14 E | 155 | 82.2 | | 12.3 | | | | 2.06 | | | 2 |
| 3 | | 4.80 E | 159 | 67.3 | 9.0 | 11.8 | 214 E | 214 | | 1.73 | | | 3 |
| 4 | | 3.98 E | 162 | 55.7 | | 10.9 | | | | 1.37 | | | 4 |
| 5 | | 5.15 E | 166 | 88.3 | | 9.84 | | | | 1.17 | | | 5 |
| 6 | 0.5 | 12.1 E | 172 E | 180 | | 8.18 | | | | 1.19 | | | 6 |
| 7 | | 27.5 E | 315 | 911 | | 8.83 | | | | 1.14 | | | 7 |
| 8 | 0.5 | 42.3 E | 280 E | 1 020 | | 9.78 | | | | 1.07 | | | 8 |
| 9 | | 54.8 | 350 | 1 660 | | 3.85 | | | | 0.995 | | | 9 |
| 10 | | 58.7 | 362 | 1 840 | | 4.57 | | | | 0.839 | | | 10 |
| 11 | 2.0 | 50.7 | 327 E | 1 430 | | 4.18 | | | | 0.833 | | | 11 |
| 12 | | 47.5 | 319 | 1 320 | | 4.03 | | | | 1.02 | | | 12 |
| 13 | | 45.5 | 314 | 1 260 | | 4.77 | | | | 0.914 | | | 13 |
| 14 | | 44.3 | 310 | 1 190 | | 4.07 | | | | 0.648 | | | 14 |
| 15 | | 42.5 | 305 | 1 120 | | 3.85 | | | | 0.457 | | | 15 |
| 16 | | 42.4 | 301 | 1 100 | | 3.78 | | | | 0.838 | | | 16 |
| 17 | | 41.1 | 295 | 1 050 | | 4.21 | | | | 0.711 | | | 17 |
| 18 | | 38.9 | 291 | 978 | | 4.80 | | | | 0.828 | | | 18 |
| 19 | | 35.9 | 287 | 880 | | 5.06 | | | | 0.815 | | | 19 |
| 20 | | 31.2 | 283 | 783 | | 5.20 | | | | 0.393 | | | 20 |
| 21 | 13.0 | 36.8 | 275 E | 880 | | 5.55 | | | | 0.580 | | | 21 |
| 22 | | 26.1 | 272 | 590 | | 5.20 | | | | 0.489 | | | 22 |
| 23 | | 22.3 | 264 | 508 | | 5.74 | | | | 0.185 | | | 23 |
| 24 | | 19.5 | 257 | 436 | 13.0 | 5.80 | 50.5 | 25.4 | | 0.052 | | | 24 |
| 25 | | 16.9 | 238 | 327 | | 6.35 | | | | 0.060 | | | 25 |
| 26 | | 15.0 | 241 | 333 | | 5.55 | | | | 0.073 | | | 26 |
| 27 | | 14.9 | 233 | 300 | | 4.74 | | | | 0.045 | | | 27 |
| 28 | | 14.3 | 223 | 276 | | 3.98 | | | | 0.068 | | | 28 |
| 29 | | 13.6 | 214 | 255 | | 3.34 | | | | 0.043 | | | 29 |
| 30 | | 13.2 | 205 | 234 | | 2.85 | | | | 0.118 | | | 30 |
| 31 | | | | | | 2.52 | | | | | | | 31 |
| TOTAL | | 524.54 | | 20 838.0 | | 184.31 | | | | 22.306 | | | TOTAL |
| MEAN | | 27.6 | | 888 | | 5.95 | | | | 0.740 | | | MEAN |

MOOSE JAW RIVER NEAR BURDICK - STATION NO. 05JE006

SUSPENDED SEDIMENT FOR 1983

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE ($m^3/s$) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE ($m^3/s$) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE ($m^3/s$) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.184 | | | | 0.056 | | | | 0.043 | | | 1 |
| 2 | | 0.182 | | | | 0.037 | | | | 0.047 | | | 2 |
| 3 | | 0.185 | | | | 0.033 | | | | 0.029 | | | 3 |
| 4 | | 0.148 | | | | 0.028 | | | | 0.021 | | | 4 |
| 5 | | 0.126 | | | | 0.034 | | | | 0.038 | | | 5 |
| 6 | | 0.098 | | | | 0.037 | | | | 0.026 | | | 6 |
| 7 | | 0.114 | | | | 0.015 | | | | 0.435 | | | 7 |
| 8 | | 0.096 | | | | 0.018 | | | | 0.585 | | | 8 |
| 9 | | 0.155 | | | | 0.026 | | | | 0.728 | | | 9 |
| 10 | | 0.496 | | | | 0.031 | | | | 0.819 | | | 10 |
| 11 | | 0.822 | | | | 0.024 | | | | 0.484 | | | 11 |
| 12 | | 0.554 | | | | 0.028 | | | | 0.492 | | | 12 |
| 13 | | 0.272 | | | | 0.020 | | | | 0.327 | | | 13 |
| 14 | | 0.123 | | | | 0.039 | | | | 0.257 | | | 14 |
| 15 | | 0.126 | | | | 0.026 | | | | 0.387 | | | 15 |
| 16 | | 0.190 | | | | 0.032 | | | | 0.230 | | | 16 |
| 17 | | 0.140 | | | | 0.030 | | | | 0.135 | | | 17 |
| 18 | | 0.108 | | | | 0.030 | | | | 0.174 | | | 18 |
| 19 | | 0.088 | | | | 0.026 | | | | 0.114 | | | 19 |
| 20 | | 0.612 | | | | 0.027 | | | | 0.083 | | | 20 |
| 21 | | 1.78 | | | | 0.026 | | | | 0.038 | | | 21 |
| 22 | | 0.574 | | | | 0.028 | | | | 0.034 | | | 22 |
| 23 | | 0.238 | | | | 0.021 | | | | 0.246 | | | 23 |
| 24 | | 0.130 | | | | 0.036 | | | | 0.459 | | | 24 |
| 25 | | 0.257 | | | | 0.047 | | | | 0.392 | | | 25 |
| 26 | | 0.209 | | | | 0.041 | | | | 0.274 | | | 26 |
| 27 | | 0.139 | | | | 0.037 | | | | 0.137 | | | 27 |
| 28 | | 0.091 | | | | 0.032 | | | | 0.048 | | | 28 |
| 29 | | 0.092 | | | | 0.036 | | | | 0.021 | | | 29 |
| 30 | | 0.100 | | | | 0.028 | | | | 0.020 | | | 30 |
| 31 | | 0.087 | | | | 0.098 | | | | | | | 31 |
| TOTAL | | 8.427 | | | | 1.039 | | | | 5.673 | | | TOTAL |
| MEAN | | 0.272 | | | | 0.033 | | | | 0.229 | | | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE ($m^3/s$) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP (°C) | NOV DAILY DISCHARGE ($m^3/s$) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP (°C) | DEC DAILY DISCHARGE ($m^3/s$) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.017 | | | | 0.012 | | | | 0.208 B | | | 1 |
| 2 | | 0.015 | | | | 0.003 | | | | 0.176 B | | | 2 |
| 3 | | 0.013 | | | | 0.014 | | | | 0.180 B | | | 3 |
| 4 | | 0.017 | | | | 0.013 | | | | 0.144 B | | | 4 |
| 5 | | 0.018 | | | | 0.005 | | | | 0.138 B | | | 5 |
| 6 | | 0.024 | | | | 0.005 | | | | 0.135 B | | | 6 |
| 7 | | 0.038 | | | | 0.035 | | | | 0.135 B | | | 7 |
| 8 | | 0.038 | | | | 0.183 | | | | 0.133 B | | | 8 |
| 9 | | 0.034 | | | | 0.172 | | | | 0.148 B | | | 9 |
| 10 | | 0.042 | | | | 0.185 | | | | 0.140 B | | | 10 |
| 11 | | 1.15 | | | | 0.178 | | | | 0.138 B | | | 11 |
| 12 | | 0.575 | | | | 0.212 | | | | 0.140 B | | | 12 |
| 13 | | 0.084 | | | | 0.218 | | | | 0.138 B | | | 13 |
| 14 | | 0.026 | | | | 0.213 | | | | 0.131 B | | | 14 |
| 15 | | 0.027 | | | | 0.222 | | | | 0.126 B | | | 15 |
| 16 | | 0.020 | | | | 0.430 | | | | 0.125 B | | | 16 |
| 17 | | 0.015 | | | | 0.438 | | | | 0.112 B | | | 17 |
| 18 | | 0.014 | | | | 0.425 | | | | 0.111 B | | | 18 |
| 19 | | 0.012 | | | | 0.436 | | | | 0.115 B | | | 19 |
| 20 | | 0.012 | | | | 0.447 | | | | 0.114 B | | | 20 |
| 21 | | 0.017 | | | | 0.452 B | | | | 0.112 B | | | 21 |
| 22 | | 0.016 | | | | 0.483 B | | | | 0.118 B | | | 22 |
| 23 | | 0.015 | | | | 0.462 B | | | | 0.125 B | | | 23 |
| 24 | | 0.021 | | | | 0.461 B | | | | 0.105 B | | | 24 |
| 25 | | 0.018 | | | | 0.436 B | | | | 0.106 B | | | 25 |
| 26 | | 0.020 | | | | 0.388 B | | | | 0.111 B | | | 26 |
| 27 | | 0.027 | | | | 0.330 B | | | | 0.112 B | | | 27 |
| 28 | | 0.015 | | | | 0.289 B | | | | 0.135 B | | | 28 |
| 29 | | 0.012 | | | | 0.269 B | | | | 0.139 B | | | 29 |
| 30 | | 0.017 | | | | 0.212 B | | | | 0.126 B | | | 30 |
| 31 | | 0.015 | | | | | | | | 0.115 B | | | 31 |
| TOTAL | | 2.398 | | | | 7.881 | | | | 4.072 | | | TOTAL |
| MEAN | | 0.077 | | | | 0.265 | | | | 0.131 | | | MEAN |

SUMMARY FOR THE YEAR 1983

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 382 ON APR 10

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 1 840 ON APR 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 24 00 N
LONG 105 23 50 W
DRAINAGE AREA 9 230 $km^2$
REGULATED FLOW

B - ICE CONDITIONS

B - SAMPLE(S) COLLECTED THIS DAY

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

SUSPENDED SEDIMENT FOR 1983

| DAY | JAN TEMP (°C) | JAN DAILY DISCHARGE (m³/s) | JAN MEAN CONCENTRATION (mg/L) | JAN DAILY LOAD (t) | FEB TEMP (°C) | FEB DAILY DISCHARGE (m³/s) | FEB MEAN CONCENTRATION (mg/L) | FEB DAILY LOAD (t) | MAR TEMP (°C) | MAR DAILY DISCHARGE (m³/s) | MAR MEAN CONCENTRATION (mg/L) | MAR DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 134 B | | | | 180 B | | | | 103 B | | | 1 |
| 2 | | 133 B | | | | 164 B | | | | 103 B | | | 2 |
| 3 | | 132 B | | | | 147 B | | | | 104 B | | | 3 |
| 4 | | 131 B | | | | 139 B | | | | 105 B | | | 4 |
| 5 | | 131 B | | | | 127 B | | | | 108 B | | | 5 |
| 6 | | 136 B | | | | 115 B | | | | 108 B | | | 6 |
| 7 | | 146 B | | | | 109 B | | | | 107 B | | | 7 |
| 8 | | 154 B | | | | 105 B | | | | 105 B | | | 8 |
| 9 | | 155 B | | | | 98.8 B | | | | 104 B | | | 9 |
| 10 | | 146 B | | | | 97.8 B | | | | 95.8 B | | | 10 |
| 11 | | 139 B | | | | 105 B | | | | 99.7 B | | | 11 |
| 12 | | 138 B | | | | 113 B | | | | 107 B | | | 12 |
| 13 | | 134 B | | | | 116 B | | | | 110 B | | | 13 |
| 14 | | 124 B | | | | 121 B | | | | 110 B | | | 14 |
| 15 | | 113 B | | | | 124 B | | | | 109 B | | | 15 |
| 16 | | 125 B | | | | 120 B | | | | 110 B | | | 16 |
| 17 | | 147 B | | | | 112 B | | | | 112 B | | | 17 |
| 18 | | 157 B | | | | 108 B | | | | 113 B | | | 18 |
| 19 | | 164 B | | | | 99.6 B | | | | 113 B | | | 19 |
| 20 | | 168 B | | | | 97.2 B | | | | 114 B | | | 20 |
| 21 | | 164 B | | | | 98.4 B | | | | 118 B | | | 21 |
| 22 | | 139 B | | | | 97.7 B | | | | 122 B | | | 22 |
| 23 | | 127 B | | | | 97.2 B | | | | 126 B | | | 23 |
| 24 | | 127 B | | | | 97.1 B | | | | 126 B | | | 24 |
| 25 | | 151 B | | | | 99.7 B | | | | 126 B | | | 25 |
| 26 | | 164 B | | | | 102 B | | | | 129 B | | | 26 |
| 27 | | 165 B | | | | 101 B | | | | 132 B | | | 27 |
| 28 | | 163 B | | | | 103 B | | | | 135 B | | | 28 |
| 29 | | 160 B | | | | | | | | 139 B | | | 29 |
| 30 | | 160 B | | | | | | | | 143 B | | | 30 |
| 31 | | 161 B | | | | | | | | 145 B | | | 31 |
| TOTAL | | 4 436 | | | | 3 159.5 | | | | 3 584.3 | | | TOTAL |
| MEAN | | 143 | | | | 113 | | | | 116 | | | MEAN |

| DAY | APR TEMP (°C) | APR DAILY DISCHARGE (m³/s) | APR MEAN CONCENTRATION (mg/L) | APR DAILY LOAD (t) | MAY TEMP (°C) | MAY DAILY DISCHARGE (m³/s) | MAY MEAN CONCENTRATION (mg/L) | MAY DAILY LOAD (t) | JUN TEMP (°C) | JUN DAILY DISCHARGE (m³/s) | JUN MEAN CONCENTRATION (mg/L) | JUN DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 145 B | | | | 459 | 350 | 13 800 | | 216 | 44 | 821 | 1 |
| 2 | | 142 B | | | | 411 | 320 | 11 400 | 14.0 | 194 | 43 S | 721 | 2 |
| 3 | | 141 B | | | | 429 | 350 | 13 000 | 13.0 | 189 | 46 S | 751 | 3 |
| 4 | | 142 B | | | | 522 | 400 | 18 000 | 13.0 | 189 | 42 S | 686 | 4 |
| 5 | | 150 B | | | 8.0 | 520 | 381 S | 17 100 | | 190 | 42 | 689 | 5 |
| 6 | | 159 B | | | | 478 | 336 | 13 800 | 14.0 | 187 | 42 S | 678 | 6 |
| 7 | | 165 B | | | | 439 | 283 | 11 100 | | 185 | 44 | 703 | 7 |
| 8 | | 169 B | | | | 401 | 255 | 8 830 | 17.5 | 205 | 54 S | 958 | 8 |
| 9 | | 180 B | | | 10.0 | 386 | 235 S | 7 120 | | 234 | 73 | 1 480 | 9 |
| 10 | | 196 B | | | | 387 | 224 | 7 100 | 18.0 | 242 | 69 S | 1 230 | 10 |
| 11 | | 219 B | | | | | | | | 242 | 80 | 1 050 | 11 |
| 12 | | 271 B | | | 4.5 | 392 | 287 S | 9 720 | | 252 | 53 | 1 150 | 12 |
| 13 | | 382 B | | | | 377 | 214 | 6 970 | | 257 | 68 S | 1 470 | 13 |
| 14 | | 384 B | | | 7.0 | 359 | 158 S | 4 900 | 17.0 | 255 | 65 | 1 430 | 14 |
| 15 | | 370 B | | | | 352 | 138 | 4 200 | | 247 | 58 S | 1 240 | 15 |
| 16 | | 365 B | | | | 351 | 128 | 3 820 | 18.0 | | | | |
| 17 | | 389 B | | | 9.5 | 348 | 119 S | 3 580 | 22.0 | 238 | 53 S | 1 090 | 16 |
| 18 | | 387 B | | | | 337 | 112 | 3 260 | | 220 | 46 | 874 | 17 |
| 19 | | 445 B | | | 11.5 | 338 | 105 S | 3 070 | 19.0 | 201 | 42 S | 729 | 18 |
| 20 | | 808 B | | | | 340 | 96 | 2 880 | 19.0 | 179 | 42 S | 850 | 19 |
| 21 | | 790 B | | | 13.0 | 347 | 92 S | 2 760 | | 179 | 44 | 880 | 20 |
| 22 | | 818 B | | | | 341 | 85 | 2 500 | | 218 | 46 | 904 | 21 |
| 23 | | 487 | | | 13.0 | 336 | 80 S | 2 320 | | 235 | 51 | 1 040 | 22 |
| 24 | | 412 | | | | 324 | 78 | 2 130 | 17.0 | 244 | 55 S | 1 180 | 23 |
| 25 | | 387 | | | | 308 | 73 | 1 940 | 18.0 | 264 | 58 S | 1 270 | 24 |
| 26 | | 341 | | | 13.5 | 305 | 70 S | 1 840 | | 251 | 61 | 1 320 | 25 |
| 27 | | 371 | | | | 307 | 68 | 1 800 | 17.0 | 252 | 69 S | 1 500 | 26 |
| 28 | | 468 | | | 16.0 | 304 | 67 S | 1 760 | | 274 | 83 | 2 080 | 27 |
| 29 | | 452 | | | | 304 | 69 | 1 810 | 18.5 | 286 | 80 S | 1 830 | 28 |
| 30 | | 462 | | | 14.0 | 294 | 78 S | 1 980 | | 237 | 69 | 1 410 | 29 |
| 31 | | | | | | 273 | 71 | 1 670 | 20.0 | 231 | 65 S | 1 300 | 30 |
| TOTAL | | 10 134 | | | | 241 | 60 | 1 040 | | | | | 31 |
| MEAN | | 338 | | | | 11 271 | | 187 400 | | 6 782 | | 32 883 | TOTAL |
| | | | | | | 364 | | 6 050 | | 225 | | 1 100 | MEAN |

SASKATCHEWAN

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

SUSPENDED SEDIMENT FOR 1982

| DAY | JUL TEMP. (°C) | JUL DAILY DISCHARGE (m³/s) | JUL MEAN CONCENTRATION (mg/L) | JUL DAILY LOAD (t) | AUG TEMP. (°C) | AUG DAILY DISCHARGE (m³/s) | AUG MEAN CONCENTRATION (mg/L) | AUG DAILY LOAD (t) | SEP TEMP. (°C) | SEP DAILY DISCHARGE (m³/s) | SEP MEAN CONCENTRATION (mg/L) | SEP DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 278 | 78 | 1 880 | | 362 | 112 | 3 310 | 20.0 | 184 | 47 S | 885 | 1 |
| 2 | 19.0 | 373 | 119 S | 3 840 | 23.0 | 304 | 85 S | 2 230 | | 185 | 51 | 883 | 2 |
| 3 | | 509 | 214 | 9 410 | | 283 | 74 | 1 810 | 16.0 | 182 | 57 S | 749 | 3 |
| 4 | 18.0 | 510 | 230 S | 10 100 | 24.0 | 269 | 73 S | 1 700 | | 158 | 54 | 737 | 4 |
| 5 | 19.0 | 441 | 189 S | 7 580 | 24.0 | 249 | 71 S | 1 530 | | 181 A | 49 | 852 | 5 |
| 6 | 20.0 | 397 | 236 S | 8 080 | 25.0 | 237 | 65 S | 1 330 | 15.0 | 185 E | 47 S | 870 | 6 |
| 7 | 21.0 | 380 | 212 S | 6 590 | | 227 | 63 | 1 240 | | 170 E | 47 | 880 | 7 |
| 8 | | 348 | 185 | 5 550 | 26.0 | 215 | 62 S | 1 170 | 15.0 | 183 E | 46 S | 878 | 8 |
| 9 | 24.0 | 380 | 175 S | 5 280 | | 213 | 62 | 1 140 | | 186 A | 47 | 833 | 9 |
| 10 | | 383 | 178 | 5 580 | | 192 | 54 | 895 | 12.0 | 180 | 46 S | 836 | 10 |
| 11 | 22.0 | 408 | 190 S | 6 700 | 22.0 | 178 | 52 S | 800 | | 187 | 48 | 884 | 11 |
| 12 | | 511 | 227 | 10 000 | | 178 | 52 | 800 | | 183 E | 45 | 834 | 12 |
| 13 | 22.0 | 610 | 329 S | 17 300 | 20.0 | 184 | 57 S | 908 | 12.0 | 186 A | 45 S | 807 | 13 |
| 14 | 22.0 | 821 | 454 S | 24 400 | | 185 | 56 | 827 | | 151 | 41 | 535 | 14 |
| 15 | 21.0 | 888 | 395 S | 20 100 | | 175 | 52 | 788 | 14.0 | 137 | 32 S | 379 | 15 |
| 16 | | 580 | 401 | 20 100 | 21.0 | 188 | 45 S | 842 | | 128 | 30 | 327 | 16 |
| 17 | 18.0 | 578 | 447 S | 22 200 | | 156 | 41 | 553 | | 128 | 31 | 343 | 17 |
| 18 | 20.0 | 531 | 384 S | 18 100 | 20.0 | 151 | 38 S | 508 | | 128 | 32 | 354 | 18 |
| 19 | | 487 | 278 | 11 700 | | 147 | 39 | 495 | | 133 | 33 | 378 | 19 |
| 20 | 22.0 | 444 | 236 S | 9 050 | 17.0 | 141 | 38 S | 475 | 5.0 | 142 | 34 S | 417 | 20 |
| 21 | | 410 | 223 | 7 900 | | 137 | 40 | 473 | | 145 | 33 | 401 | 21 |
| 22 | 21.0 | 378 | 218 S | 7 020 | | 143 | 40 | 494 | | 139 | 31 | 372 | 22 |
| 23 | | 385 | 197 | 6 040 | 18.0 | 154 | 40 S | 532 | 9.0 | 134 | 29 S | 336 | 23 |
| 24 | 21.0 | 367 | 166 S | 5 260 | | 158 | 38 | 513 | | 137 | 29 | 343 | 24 |
| 25 | | 386 | 180 | 5 470 | 20.0 | 165 | 38 S | 508 | | 145 | 31 | 388 | 25 |
| 26 | 22.0 | 410 | 183 S | 5 770 | | 154 | 39 | 518 | 12.0 | 151 | 37 S | 483 | 26 |
| 27 | | 401 | 161 | 5 580 | 21.0 | 148 | 41 S | 526 | | 148 | 35 | 448 | 27 |
| 28 | | 387 | 147 | 4 820 | | 155 | 44 | 589 | | 137 | 29 | 343 | 28 |
| 29 | 21.0 | 371 | 134 S | 4 300 | | 150 | 47 | 650 | 9.0 | 133 | 28 S | 322 | 29 |
| 30 | | 356 | 122 | 3 750 | 21.0 | 153 | 50 S | 683 | | 128 | 28 | 312 | 30 |
| 31 | | 357 | 121 | 3 730 | | 150 | 48 | 877 | | | | | 31 |
| TOTAL | | 13 488 | | 283 320 | | 5 676 | | 29 415 | | 4 633 | | 15 209 | TOTAL |
| MEAN | | 434 | | 9 140 | | 190 | | 948 | | 148 | | 507 | MEAN |

| DAY | OCT TEMP (°C) | OCT DAILY DISCHARGE (m³/s) | OCT MEAN CONCENTRATION (mg/L) | OCT DAILY LOAD (t) | NOV TEMP. (°C) | NOV DAILY DISCHARGE (m³/s) | NOV MEAN CONCENTRATION (mg/L) | NOV DAILY LOAD (t) | DEC TEMP. (°C) | DEC DAILY DISCHARGE (m³/s) | DEC MEAN CONCENTRATION (mg/L) | DEC DAILY LOAD (t) | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 123 | 28 | 298 | | 118 | 19 | 194 | | 103 B | | | 1 |
| 2 | | 122 | 28 | 295 | | 113 | 18 | 185 | | 88.9 B | | | 2 |
| 3 | | 122 | 27 | 285 | 3.5 | 118 | 19 S | 194 | | 103 B | | | 3 |
| 4 | 7.0 | 123 | 27 S | 287 | | 127 | | | | 104 B | | | 4 |
| 5 | | 123 | 27 | 287 | | 138 | | | | 105 B | | | 5 |
| 6 | | 123 | 26 | 276 | | 137 | | | | 103 B | | | 6 |
| 7 | | 125 | 26 | 281 | | 132 | | | | 95.4 B | | | 7 |
| 8 | | 127 | 26 | 286 | | 131 | | | | 96.6 B | | | 8 |
| 9 | | 128 | 26 | 288 | | 138 | | | | 101 B | | | 9 |
| 10 | | 139 | 26 | 390 | | 142 | | | | 99.7 B | | | 10 |
| 11 | | 124 | 28 | 279 | | 148 | | | | 98.2 B | | | 11 |
| 12 | | 122 | 26 | 274 | | 152 | | | | 98.5 B | | | 12 |
| 13 | 8.0 | 119 | 26 S | 267 | | 152 | | | | 101 B | | | 13 |
| 14 | | 117 | 26 | 263 | | 148 | | | | 97.6 B | | | 14 |
| 15 | | 122 | 26 | 284 | | 138 | | | | 94.3 B | | | 15 |
| 18 | | 126 A | 22 | 238 | | 135 B | | | | 92.6 B | | | 16 |
| 17 | 3.0 | 123 A | 21 S | 223 | | 137 B | | | | 92.3 B | | | 17 |
| 18 | | 117 | 21 | 212 | | 131 B | | | | 93.5 B | | | 18 |
| 19 | | 116 | 20 | 198 | | 122 B | | | | 80.9 B | | | 19 |
| 20 | | 139 | 20 | 240 | | 115 B | | | | 91.0 B | | | 20 |
| 21 | | 154 | 20 | 268 | | 111 B | | | | 90.3 B | | | 21 |
| 22 | | 154 | 20 | 285 | | 110 B | | | | 85.2 B | | | 22 |
| 23 | | 150 | 20 | 278 | | 113 B | | | | 80.6 B | | | 23 |
| 24 | | 167 | 20 | 288 | | 108 B | | | | 84.3 B | | | 24 |
| 25 | | 165 | 20 | 285 | | 97.7 B | | | | 85.0 B | | | 25 |
| 26 | | 150 | 20 | 259 | | 97.4 B | | | | 101 B | | | 26 |
| 27 | | 133 | 19 | 218 | | 100 B | | | | 109 B | | | 27 |
| 28 | | 121 | 19 | 195 | | 98.7 B | | | | 118 B | | | 28 |
| 29 | | 121 | 19 | 199 | | 108 B | | | | 123 B | | | 29 |
| 30 | | 121 | 19 | 195 | | 110 B | | | | 123 B | | | 30 |
| 31 | | 118 | 19 | 194 | | | | | | 114 B | | | 31 |
| TOTAL | | 4 032 | | 7 961 | | 3 717.8 | | | | 3 084.1 | | | TOTAL |
| MEAN | | 130 | | 257 | | 124 | | | | 99.5 | | | MEAN |

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 12 10 N
LONG 105 48 05 W
DRAINAGE AREA 131 000 km²
REGULATED FLOW SINCE 1982

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 05 | 13:15 | 512 | 9.0 | 378 R | 18 | 27 | 43 | 62 | 72 | 78 | 88 | 94 | 97 | 98 | | BNW |
| JUL 14 | 13:15 | 824 | 22.0 | 488 R | 27 | 33 | 46 | 61 | 74 | 85 | 92 | 97 | 99 | 99 | | BNW |
| JUL 14 | 13:20 | 824 | 22.0 | 492 K | 25 | 32 | 45 | 59 | 88 | 79 | 86 | 94 | 97 | 99 | | BNW |
| JUL 14 | 16:50 | 821 H | 25.0 | 443 K | 21 | 28 | 43 | 61 | 74 | 84 | 92 | 97 | 99 | 100 | | BNW |

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1983

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

| DATE | TIME | DISCHARGE MEASUREMENT (m³/s) | WATER TEMP. (°C) | VERTICAL (m) | DEPTH OF SAMPLE (m) | CONCENTRATION OF SAMPLE(S) (mg/L) | PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 | 0.004 | 0.008 | 0.016 | 0.031 | 0.062 | 0.125 | 0.250 | 0.500 | 1.000 | 2.000 | METHOD OF ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 14 | 16:15 | 824 | 22.0 | 84.0 | 0.30 | 432 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.00 | 460 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.80 | 542 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.85 | 894 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.00 | | STREAMBED | | | | | | | | | | | |
| | | | | 115.0 | 0.30 | 481 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.47 | 484 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.35 | 588 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.79 | 770 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.84 | | STREAMBED | | | | | | | | | | | |
| | | | | 155.0 | 0.30 | 410 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.22 | 477 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.85 | 508 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.29 | 1 660 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.44 | | STREAMBED | | | | | | | | | | | |
| | | | | 199.0 | 0.30 | 421 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.17 | 477 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.87 | 488 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.19 | 588 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.34 | | STREAMBED | | | | | | | | | | | |
| | | | | 242.0 | 0.30 | 390 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.24 | 395 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 1.98 | 422 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.33 | 654 | DATA NOT AVAILABLE | | | | | | | | | | | |
| | | | | | 2.48 | | STREAMBED | | | | | | | | | | | |

# STATION NUMBER INDEX




| STA. NO. | NAME | PAGE |
|---|---|---|
| 01AL004 | NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN | 148 |
| 01AP004 | KENNEBECASIS RIVER AT APOHAQUI | 146 |
| 01BU002 | PETITCODIAC RIVER NEAR PETITCODIAC | 150 |
| 01CB004 | WILMOT RIVER NEAR WILMOT VALLEY | 218 |
| 01CB005 | NORTH BROOK NEAR WALL ROAD | 216 |
| 01CE004 | BRUDENELL RIVER AT BRUDENELL | 214 |
| 01DC005 | ANNAPOLIS RIVER AT WILMOT | 168 |
| 01DG018 | PEMBROKE RIVER AT GLENBERVIE | 172 |
| 01DL001 | KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD | 168 |
| 01DP004 | MIDDLE RIVER AT ROCKLIN | 170 |
| 02ED003 | NOTTAWASAGA RIVER NEAR BAXTER | 206 |
| 02FD002 | LUCKNOW RIVER AT LUCKNOW | 203 |
| 02FF002 | AUSABLE RIVER NEAR SPRINGBANK | 174 |
| 02GA032 | O.A.C. FARM GAUGE NO. 6 AT GUELPH | 209 |
| 02GA035 | EAST CANAGAGIGUE CREEK NEAR FLORADALE | 189 |
| 02GA038 | CANAGAGIGUE CREEK NEAR FLORADALE | 183 |
| 02GC007 | BIG CREEK NEAR WALSINGHAM | 177 |
| 02GC026 | BIG OTTER CREEK NEAR CALTON | 180 |
| 02HB002 | CREDIT RIVER AT ERINDALE | 186 |
| 02HC025 | HUMBER RIVER AT ELDER MILLS | 200 |
| 02HD013 | HARMONY CREEK AT OSHAWA | 197 |
| 02HD014 | FAREWELL CREEK AT OSHAWA | 192 |
| 02LB005 | SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS | 212 |
| 02YD002 | NORTHEAST BROOK NEAR RODDICKTON | 156 |
| 02YJ001 | HARRYS RIVER BELOW HIGHWAY BRIDGE | 152 |
| 02ZA002 | HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY | 154 |
| 02ZH004 | WATERFORD RIVER AT KILBRIDE | 158 |
| 04KA002 | HALFWAY CREEK AT MOOSONEE | 195 |
| 05AA023 | OLDMAN RIVER NEAR WALDRON'S CORNER | 24 |
| 05AA024 | OLDMAN RIVER NEAR BROCKET | 19 |
| 05AD007 | OLDMAN RIVER NEAR LETHBRIDGE | 21 |
| 05AK001 | SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO 41 | 40 |
| 05BF018 | MARMOT CREEK MAIN STEM NEAR SEEBE | 15 |
| 05BF017 | MIDDLE FORK CREEK NEAR SEEBE | 17 |
| 05BF018 | TWIN CREEK NEAR SEEBE | 46 |
| 05BF019 | CABIN CREEK NEAR SEEBE | 4 |
| 05CC002 | RED DEER RIVER AT RED DEER | 32 |
| 05CE001 | RED DEER RIVER AT DRUMHELLER | 28 |
| 05CK004 | RED DEER RIVER NEAR BINDLOSS | 35 |
| 05GG001 | NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT | 227 |
| 05JE005 | MOOSE JAW RIVER NEAR BURDICK | 225 |
| 05JF011 | COTTONWOOD CREEK NEAR LUMSDEN | 223 |
| 05KB005 | BURNTOUT BROOK NEAR ARBORFIELD | 220 |
| 05KJ001 | SASKATCHEWAN RIVER AT THE PAS | 131 |
| 05LJ010 | VALLEY RIVER NEAR DAUPHIN | 143 |
| 05LJ047 | EDWARDS CREEK DRAIN BELOW JACKFISH CREEK | 113 |
| 05MH005 | ASSINIBOINE RIVER NEAR HOLLAND | 104 |
| 05MJ001 | ASSINIBOINE RIVER AT HEADINGLEY | 105 |
| 05NF002 | ANTLER RIVER NEAR MELITA | 103 |
| 05NF016 | SOURIS RIVER NEAR COULTER | 136 |
| 05NG001 | SOURIS RIVER AT WAWANESA | 133 |
| 05NG025 | SOURIS RIVER NEAR LAUDER | 139 |
| 05NE026 | SOURIS RIVER NEAR MINTO | 141 |
| 05OB007 | PEMBINA RIVER NEAR WINDYGATES | 118 |
| 05OC001 | RED RIVER AT EMERSON | 121 |
| 05OD001 | ROSEAU RIVER NEAR DOMINION CITY | 129 |
| 05OD004 | ROSEAU RIVER AT GARDENTON | 127 |
| 05OJ010 | RED RIVER NEAR LOCKPORT | 134 |
| 05TE001 | BURNTWOOD RIVER ABOVE THREE POINT LAKE | 111 |
| 05TG003 | ODEI RIVER NEAR THOMPSON | 116 |
| 07AF003 | WAMPUS CREEK NEAR HINTON | 48 |
| 07AF004 | DEERLICK CREEK NEAR HINTON | 8 |
| 07AF005 | EUNICE CREEK NEAR HINTON | 13 |
| 07BH003 | DRIFTPILE RIVER NEAR DRIFTPILE | 10 |
| 07BJ001 | SWAN RIVER NEAR KINUSO | 43 |
| 07CC002 | ATHABASCA RIVER AT MCMURRAY | 3 |
| 07CD001 | CLEARWATER RIVER AT DRAPER | 6 |
| 07DD001 | ATHABASCA RIVER AT EMBARRAS AIRPORT | 1 |
| 07FB002 | MURRAY RIVER NEAR THE MOUTH | 88 |
| 07FB003 | SUKUNKA RIVER NEAR THE MOUTH | 100 |
| 07FB004 | DICKEBUSCH CREEK NEAR THE MOUTH | 57 |
| 07FB005 | QUALITY CREEK NEAR THE MOUTH | 92 |
| 07FB006 | MURRAY RIVER ABOVE WOLVERINE RIVER | 84 |
| 07FB007 | SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK | 98 |
| 07HA001 | PEACE RIVER AT PEACE RIVER | 26 |
| 07NB001 | SLAVE RIVER AT FITZGERALD | 38 |
| 08CB001 | STIKINE RIVER ABOVE GRAND CANYON | 95 |
| 08HE048 | CARNATION CREEK AT THE MOUTH | 54 |
| 08KA004 | FRASER RIVER AT HANSARD | 67 |
| 08MC018 | FRASER RIVER NEAR MARGUERITE | 79 |
| 08MF035 | FRASER RIVER NEAR AGASSIZ | 75 |
| 08MH024 | FRASER RIVER AT MISSION | 71 |
| 08NH018 | DUCK CREEK NEAR WYNNDEL | 80 |
| 08NH054 | ARROW CREEK NEAR ERICKSON | 52 |
| 08NK129 | KOOTENAY RIVER AT NICKS ISLAND | 82 |
| 08NJ130 | ANDERSON CREEK NEAR NELSON | 50 |
| 08NJ168 | FIVE MILE CREEK ABOVE CITY INTAKE | 82 |
| 10CC002 | FORT NELSON RIVER ABOVE MUSKWA RIVER | 84 |
| 10CD001 | MUSKWA RIVER NEAR FORT NELSON | 89 |
| 10ED002 | LIARD RIVER NEAR THE MOUTH | 180 |
| 10LA003 | MACKENZIE RIVER ABOVE ARCTIC RED RIVER | 183 |

# ALPHABETICAL INDEX


| NAME | STA. NO. | PAGE |
|---|---|---|
| ANDERSON CREEK NEAR NELSON | 08NJ130 | 50 |
| ANNAPOLIS RIVER AT WILMOT | 01DC005 | 185 |
| ANTLER RIVER NEAR MELITA | 05MF002 | 103 |
| ARROW CREEK NEAR ERICKSON | 08NH084 | 52 |
| ASSINIBOINE RIVER AT HEADINGLEY | 05MJ001 | 105 |
| ASSINIBOINE RIVER NEAR HOLLAND | 05MH003 | 104 |
| ATHABASCA RIVER AT EMBARRAS AIRPORT | 07DD001 | 1 |
| ATHABASCA RIVER AT MCMURRAY | 07CC002 | 3 |
| AUSABLE RIVER NEAR SPRINGBANK | 02FF002 | 174 |
| BIG CREEK NEAR WALSINGHAM | 02GC007 | 177 |
| BIG OTTER CREEK NEAR CALTON | 02GC028 | 180 |
| BRUDENELL RIVER AT BRUDENELL | 01CE004 | 214 |
| BURNTOUT BROOK NEAR ARBORFIELD | 05KE005 | 220 |
| BURNTWOOD RIVER ABOVE THREE POINT LAKE | 05TE001 | 111 |
| CABIN CREEK NEAR SEEBE | 05BF018 | 4 |
| CANAGAGIGUE CREEK NEAR FLORADALE | 02GA038 | 183 |
| CARNATION CREEK AT THE MOUTH | 08MB048 | 54 |
| CLEARWATER RIVER AT DRAPER | 07CD001 | 6 |
| COTTONWOOD CREEK NEAR LUMSDEN | 05JF011 | 223 |
| CREDIT RIVER AT ERINDALE | 02HB002 | 186 |
| DEERLICK CREEK NEAR HINTON | 07AF004 | 8 |
| DICKEBUSCH CREEK NEAR THE MOUTH | 07FB004 | 57 |
| DRIFTPILE RIVER NEAR DRIFTPILE | 07BH003 | 10 |
| DUCK CREEK NEAR WYNNDEL | 08NH018 | 60 |
| EAST CANAGAGIGUE CREEK NEAR FLORADALE | 02GA035 | 188 |
| EDWARDS CREEK DRAIN BELOW JACKFISH CREEK | 05LJ047 | 113 |
| EUNICE CREEK NEAR HINTON | 07AF005 | 13 |
| FAREWELL CREEK AT OSHAWA | 02HD014 | 192 |
| FIVE MILE CREEK ABOVE CITY INTAKE | 08NJ188 | 62 |
| FORT NELSON RIVER ABOVE MUSKWA RIVER | 10CC002 | 64 |
| FRASER RIVER AT HANSARD | 08KA004 | 67 |
| FRASER RIVER AT MISSION | 08NH024 | 71 |
| FRASER RIVER NEAR AGASSIZ | 08MF035 | 75 |
| FRASER RIVER NEAR MARGUERITE | 08MC018 | 79 |
| HALFWAY CREEK AT MOOSONEE | 04KA002 | 195 |
| HARMONY CREEK AT OSHAWA | 02HD013 | 197 |
| HARRYS RIVER BELOW HIGHWAY BRIDGE | 02YJ001 | 152 |
| HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY | 02ZA002 | 154 |
| HUMBER RIVER AT ELDER MILLS | 02HC026 | 200 |
| KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD | 01DL001 | 188 |
| KENNEBECASIS RIVER AT APOHAQUI | 01AP004 | 145 |
| KOOTENAY RIVER AT NICKS ISLAND | 08NH128 | 82 |
| LIARD RIVER NEAR THE MOUTH | 10ED002 | 160 |
| LUCKNOW RIVER AT LUCKNOW | 02FD002 | 203 |
| MACKENZIE RIVER ABOVE ARCTIC RED RIVER | 10LA003 | 163 |
| MARMOT CREEK MAIN STEM NEAR SEEBE | 05BF016 | 15 |
| MIDDLE FORK CREEK NEAR SEEBE | 05BF017 | 17 |
| MIDDLE RIVER AT ROCKLIN | 01DP004 | 170 |
| MOOSE JAW RIVER NEAR BURDICK | 05JE006 | 225 |
| MURRAY RIVER ABOVE WOLVERINE RIVER | 07FB006 | 84 |
| MURRAY RIVER NEAR THE MOUTH | 07FB002 | 86 |
| MUSKWA RIVER NEAR FORT NELSON | 10CD001 | 89 |
| NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN | 01AL004 | 148 |
| NORTH BROOK NEAR WALL ROAD | 01CB005 | 218 |
| NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT | 05GG001 | 227 |
| NORTHEAST BROOK NEAR RODDICKTON | 02YD002 | 156 |
| NOTTAWASAGA RIVER NEAR BAXTER | 02ED003 | 208 |
| O.A.C. FARM GAUGE NO. 5 AT GUELPH | 02GA032 | 200 |
| ODEI RIVER NEAR THOMPSON | 05TG003 | 116 |
| OLDMAN RIVER NEAR BROCKET | 05AA024 | 19 |
| OLDMAN RIVER NEAR LETHBRIDGE | 05AD007 | 21 |
| OLDMAN RIVER NEAR WALDRON'S CORNER | 05AA023 | 24 |
| PEACE RIVER AT PEACE RIVER | 07HA001 | 26 |
| PEMBINA RIVER NEAR WINDYGATES | 05OB007 | 118 |
| PEMBROKE RIVER AT GLENSERVIE | 01DG018 | 172 |
| PETITCODIAC RIVER NEAR PETITCODIAC | 01BU002 | 150 |
| QUALITY CREEK NEAR THE MOUTH | 07FB005 | 92 |
| RED DEER RIVER AT DRUMHELLER | 05CE001 | 29 |
| RED DEER RIVER AT RED DEER | 05CC002 | 32 |
| RED DEER RIVER NEAR BINDLOSS | 05CK004 | 36 |
| RED RIVER AT EMERSON | 05OC001 | 121 |
| RED RIVER NEAR LOCKPORT | 05OJ010 | 124 |
| ROSEAU RIVER AT GARDENTON | 05OD004 | 127 |
| ROSEAU RIVER NEAR DOMINION CITY | 05OD001 | 129 |
| SASKATCHEWAN RIVER AT THE PAS | 05KJ001 | 131 |
| SLAVE RIVER AT FITZGERALD | 07NB001 | 38 |
| SOURIS RIVER AT WAWANESA | 05NG001 | 133 |
| SOURIS RIVER NEAR COULTER | 05NF018 | 136 |
| SOURIS RIVER NEAR LAUDER | 05NE025 | 139 |
| SOURIS RIVER NEAR MINTO | 05NE028 | 141 |
| SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS | 02LB008 | 212 |
| SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 | 05AK001 | 40 |
| STIKINE RIVER ABOVE GRAND CANYON | 08CB001 | 95 |
| SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK | 07FB007 | 98 |
| SUKUNKA RIVER NEAR THE MOUTH | 07FB003 | 100 |
| SWAN RIVER NEAR KINUSO | 07BJ001 | 43 |
| TWIN CREEK NEAR SEEBE | 05BF018 | 46 |
| VALLEY RIVER NEAR DAUPHIN | 05LJ010 | 143 |
| WAMPUS CREEK NEAR HINTON | 07AF003 | 48 |
| WATERFORD RIVER AT KILBRIDE | 02ZH008 | 158 |
| WILMOT RIVER NEAR WILMOT VALLEY | 01CB004 | 216 |